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Mazumder, Abhijit

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cccagcgacg acgccaccgc gcttatgacc gacccaagc tcatcacctg gtctccggtg 240
tgtcgcaacg atgtgcctg gaactttgag aagttcctgg tgggccctga cgggtgtgcc 300
ctacgcaggt acagccgccg ctccagacc attgacatcg agcctgacat cgaagccctg 360
ctgtctcaag ggcccagctg tgcctagggc gccctccta ccccggtgc ttggcagttg 420
cagtgtgct gtctcggggg ggtttcattc tatgagggtg ttctcttaa acctacgagg 480
gaggaaacac ttgatcttac agaaaatacc acctcgagat ggggtgctgg cctgttgatc 540
ccagtctctg ccagaccaag gcgagtt 567

<210> 36

<21 1> 165

<212> DNA

<213> Homo sapiens

<400> 36

gggctgcatc accatcatag gtgggtggaga cactgccact tgctgtgcca aatggaacac 60
ggaggataaa gtcagccatg tgagcactgg ggggtgggcc agtttggagc tcctggaagg 120
taaagtcctt cctgggggtgg atgctctcag caatatttag tactt 165

<210> 37

<211> 481

<212> DNA

<213> Homo sapiens

<400> 37

gagtatgtag tggtctctt tgaactgtta gatgctgaat atctgttcac tttcaatcc 60
caattctgtc ccaatcttac cagatgctac tggacttgaa tggtaataa aactgcacag 120
tgctgttggg ggcagtgact tcttttgagt taggttaata aatcaagcca tagagcccct 180
cctggttgat actgttcca gatggggcct ttggggctgg tagaaatacc caacgcacaa 240
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caatgactgc ttgtttgga tgcctcagcc caggtcagct gttactttct ttcagatgtt 360
tatttgcaaa caaccatttt ttgttctgtg tcccttttaa aaggcagatt aaaagcacia 420
gcgtgtttct agagaacagt tgagagagaa tctcaagatt ctacttggtg gtttgcttgc 480
t 481

<210> 38

<211> 461

<212> DNA

<213> Homo sapiens

<400> 38

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gaaggaggag ggtcagggtt ggccttctc tgtcatcac tctgctaggt tgggggcccc 180
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tttcttttt tttttttgc cacattggca gagatgggac ctaagggtcc caccctcac 360
cccaccccca cctcttctgt atgttgaat tcttcagta gctgtgatg ctggttgagc 420
agggttgagt caaattgtac ttgctccat tgttaattga g 461

<210> 39

<211> 479

<212> DNA

<213> Homo sapiens

<400> 39

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gtgctctcca acctgtctc ctgaaaaacc aaggccccct tccccacct ctccatggg 180
gtgagacttg agcagaacag gggcttcccc aagtggccca gaaagactgt ctgggtgaga 240
agccatggcc agagcttctc ccaggcacag gtgtgcacc agggacttct gcttcaagt 300
ttggggtaaa gacacctgga tcagactcca agggctgccc tgagtctggg acttctgcct 360
ccatggcttg tcatgagagc aaaccgtagt cccctggaga cagccactcc agagaacctc 420
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<210> 40

<211> 529

<212> DNA

<213> Homo sapiens

<400> 40

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caggctgcag tagatggtcc catggacaag aaggaagagt aagggcctcc ttctccct 180
gcctgcagct ggcttcacc tggcacgtgc ctgctgcttc ctgagagccc ggcctctccc 240
tccagtactt ctgtttgtgc cttctgctt cccccattcc ctccacagc tcatagctcg 300
tcatctggc cttgtccac actctccaag cacattacag gggacctgat tgctacacgt 360
tcagaatgcg ttgtgtca tctgcttg cctggccagg cctggcacag cttggcttc 420
cacgcctgag cgtggagagc acgagttagt ttagtccgg ctgcggtgg ggtgacttc 480
ctgttggtt gagcccttt ttgtttgcc ctctgggtgt ttctttgg 529
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<210> 41

<211> 195

<212> DNA

<213> Homo sapiens

<400> 41

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gatccatcca tctccaggga gcaagacaga gacgcaggat ggaaagcgga gttcctaaca 120
ggatgaaagt tccccatca gttccccag tacctccaag caagtagctt tccacattg 180
tcacagaaat cagag 195
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<210> 42

<211> 301

<212> DNA

<213> Homo sapiens

<400> 42

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gcaatgtcac aacctctctg atctgtgct cagcatgatt cttaataga agttttatt 120
ttcgtgact ctgtaatca tgtgggtgag ccagtggaa acgaggagcc tgtgctggt 180
tgcagattgc ctctaata cgcggtcaa aaggaaacca agtggtcagg agttgttct 240
gaccactga tcttactac cacaaggaaa atagtttagg agaaaccagc ttactgtt 300
t 301
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<210> 43

<211> 562

<212> DNA

<213> Homo sapiens

<400> 43

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gcctgctgac gccagcaagg tgggtggcaa gggcctgggg ctgagcaagg cctacgtagg 120
ccagaagagc agcttcacag tagactgcag caaagcaggc aacaacatgc tgctggtggg 180
ggttcatggc ccaaggaccc cctgcgagga gatcctggtg aagcacgtgg gcagccggct 240
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gcacgagcac atcccaggca gcccctaccg cgttggtg cctgagtct ggggccctg 360
ccagccggca gccccaaagc ctgccccgt acccaagcag ccccgccctc ttccctcaa 420
ccccggcca ggcggccctg gccggccgct tgtactgca gctgccctg cctgtgccg 480
tgtcgctc acctgctcc ccagccagcc gctgacctct cggtttcac ttgggcagag 540
ggagccattt ggtggcgctg ct 562
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<210> 44

<211> 333

<212> DNA

<213> Homo sapiens

<400> 44

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acagcagtgag agacggcagc tctgctactg cgaattgatg acatcgcttc aggccacaaa   180
aagaaaggcg atgaccagag ccggcaaggc ggggctcctg atgctggcca ggagtgagtg   240
ctaggcaagg ctacttcaat gcacagaacc agcagagtct cccctttcc tgagccagag   300
tgccaggaac actgtggacg tctttgttca gaa                               333

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<210> 45

<211> 411

<212> DNA

<213> Homo sapiens

<400> 45

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ccgctcctaa gtgtgtcatt tgtctcagag aacagcgctg tggctgctgg ccatgactgc   120
tgcccaatgc tctttatcta ccatgaccgc ggctgcctga ccttcgtctc caagttagat   180
attccaaaac agagcatcca acgcaacatg tctgcatgg aacgcttccg caacatggac   240
aagagagcca caactgagga ccgcaacacg gccttgagga cgctgcacca gaatagcatc   300
actcaagtct ctatttatga ggtggacaag caagattgtc gcaaatttg cactactggc   360
atcgatggag ccatgacaat ttgggatttc aagaccctcg agtcttccat c           411

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<210> 46

<211> 411

<212> DNA

<213> Homo sapiens

<400> 46

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gtgtctgttg ctgatgcctc aaaaagtgtg caggctcga ctctgaagac agagttcctg   60
ccgctcctaa gtgtgtcatt tgtctcagag aacagcgctg tggctgctgg ccatgactgc   120
tgcccaatgc tctttatcta ccatgaccgc ggctgcctga ccttcgtctc caagttagat   180
attccaaaac agagcatcca acgcaacatg tctgcatgg aacgcttccg caacatggac   240
aagagagcca caactgagga ccgcaacacg gccttgagga cgctgcacca gaatagcatc   300
actcaagtct ctatttatga ggtggacaag caagattgtc gcaaatttg cactactggc   360
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<210> 47

<211> 555

<212> DNA

<213> Homo sapiens

<400> 47

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gtgaggagga ggcgtccatc aacctcaatg ccattaacaa gtgcccctg ctgaagccct   180
gggccctgac cttctctac ggccgagccc tgcaggcctc tgccctgaag gcctggggcg   240
ggaagaagga gaacctgaag gctgcgcagg aggagtatgt caagcgagcc ctggccaaca   300
gccttgctg tcaaggaaag tacactccga gcggtcaggc tggggctgct gccagcgagt   360
ccctctctgt cttaaccac gcctattaag cggaggtgtt cccaggctgc cccaacaac   420

```


tccaggccct gccccctccc actcttgaag aggaggccgc ctctcgggg ctccaggctg 480
gcttgcgcg gctctttctt ccctcgtgac agtggtgtgt ggtgtcgtct gtgaatgcta 540
agtccatcac ccttt 555

<210> 48

<211> 550

<212> DNA

<213> Homo sapiens

<400> 48

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atggcacagg aggaaagagc atctacggtg agcgcttccc cgatgagaac ttcaaactga 120
agcactacgg gcctggctgg gtgagcatgg ccaacgcagg caaagacacc aacggctccc 180
agttcttcat cagcagatc aagacagcct ggctagatgg caagcatgtg gtgtttggca 240
aagttctaga gggcatggag gtggtgcgga aggtggagag caccaagaca gacagccggg 300
ataaacccct gaaggatgtg atcatcgag actgcggcaa gatcgagggtg gagaagccct 360
ttgccatgc caaggagtag ggcacaggga catctttctt tgagtaccg tctgtcagg 420
ccctgtatc cgccacaggg ctctgagctg cactggcccc ggtgctggca tctggtggag 480
cggaccact cccctacat tccacaggcc catggactca ctttgaac aaactctac 540
caacactgac 550

<210> 49

<211> 198

<212> DNA

<213> Homo sapiens

<400> 49

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tacggtgagc gcttccccga tgagaacttc aaactgaagc actacgggcc tggctgggtg 120
agcatggcca acgcaggcaa agacaccaac ggctccagt tcttcatcac gacagtcaag 180
acagcctggc tagatggc 198

<210> 50

<211> 493

<212> DNA

<213> Homo sapiens

<400> 50

gaaccaattg cgagtcattg agtgtgtag aattaaagga ggacacgagc ctgcttctgt 60
tacctccaag tggtaacagg actgatgccg aaatgtcacc agtccttc agtcttcaca 120
gtggagaact ctggccaaa ggttttggg gggaggagga ggaaccagc tttctggtta 180
aggttaacac cagatggtgc cctcattgg tgccttta aaaaatatt actgtagtcc 240
aataagatag cagctgtaca aaatgactaa aatagattgt aggatcatat ggcgtatc 300
ttggttcac ttcaaatca gagactgagc ttgaaacta gtggtttta atcaaagttg 360
gctttatagg aggagtataa tgtatgact actgtttta aagaattagt gtgagtgtgt 420
ttttgatga atgagcccat tcatgtaag tcttaagctt gttggaaata atgtacccat 480
gtagactagc aaa 493

<210> 51

<211> 509

<212> DNA

<213> Homo sapiens

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<222> (228)..(231)
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<222> (245)..(246)
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<221> misc_feature
<222> (248)..(249)
<223> n is a, c, g, or t
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ctttagaagt gacgtgtaat ttctgaaccc atgtttcatc tgtataaaag aacatctgca 120
ccagtttttc tctgtcccct cagaagagcc aaactttgag ttttatgtct gttgtcatt 180
gataaatttc aataaatctt ttatataaan tnnaaaaaaa aaaaanannn nannannrmn 240
aananncnna ttgatctttt caagatgcat tccagatgaa ctgctagggtg agggggaagc 300
ttcatttttg ttacctgata gaatagcttt tcttatgaga tatatataat gtgatactat 360
gtttggatat ttttggcttt aaagcaagac tcagtgggtg atcttcatta aaagcttcct 420
ttaaaaaagt tacagagtta ctaaaaaac aagtacccaa acaatcaagt tgggccaacc 480
ttggaacctt gttttgaata tcittcatt 509

<210> 52
<211> 453
<212> DNA

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<213> Homo sapiens

<400> 52

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tgcccaggag gggctgagca ccagccatat cttttgcttt ggttcacatg atgatacctg  180
cttttctcag gcctgctaga ggcatccaac gccctggttt gtaaatagca acctaaaggc  240
gtattttggc actggtctgg ggacattccc catctctcat cccctttccc ccttcacaga  300
tgggtggggg cttgctcta caaagaggac tctgatgtta ctcttgagct tatgagccag  360
agagctgaaa accgcaggct tgttgttta agttacaagg aaaatggatt tggtaatata  420
aattagaaga aacacacctt caaactcaa ctt                               453
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<210> 53

<211> 398

<212> DNA

<213> Homo sapiens

<400> 53

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ggcaaagaca gcaacaacct gtgcctgcac ttcaaccctc gttcaacgc ccacggcgac  180
gccaacacca tcgtgtgcaa cagcaaggac ggcggggcct gggggaccga gcagcgggag  240
gctgtcttc cctccagcc tggaagtgtt gcagagggtg gcatcacctt cgaccaggcc  300
aacctgaccg tcaagctgcc agatggatac gaattcaagt tcccaaccg cctcaacctg  360
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<210> 54

<211> 446

<212> DNA

<213> Homo sapiens

<400> 54

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acgcccgata cgctgagtgt ggtttgcgga tcctggcctt cccgtgtaac cagttcggga   60
agcaggagcc agggagtaac gaagagatca aagagttcgc cgcgggctac aacgtcaaat  120
tcgatatgtt cagcaagatc tgcgtgaacg gggacgacgc ccacccgctg tggaagtgga  180
tgaagatcca accaagggc aagggcattc tgggaaatgc catcaagtgg aacttcacca  240
agttcctcat cgacaagaac ggctgcgtgg tgaagcgcta cggacccatg gaggagcccc  300
tggatgata gaaggacctg cccactatt tctagctcca caagtgtgtg gccccgccc  360
agcccctgcc cagcccttg gagccttcca ccggcactca tgacggcctg cctgcaaacc  420
tgctgggtggg gcagacccga aatcc                               446
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<210> 55

<211> 456

<212> DNA

<213> Homo sapiens

<400> 55

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aagacgacat gttcatctg ttgtctggag agggacaagt ttgataaca gacagtgtca   60
tttaggaac acatcaagct ggagcacaac atgtggaact actgtactt cattgtgctg  120
gtccgcgtga agaacaagac cgactacacg ggccctgaga gctacgtggc ccagatgatc  180
aagaacaaga acctggactg gtcccccg atgcgggcca tgccttctg cagcaatgag  240
ggcgaggggg agcagaatga gattcggatt ctccaggaca agctcaactc caccatgaag  300
ctggtgtccc acctactgc ccagctcaac gagctcaagg agcagatgac ggagcagcgg  360
aaacgcaggc aacgcctagg ctttgtggtt gtccagaact gcattagccg ctgaggagag  420
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ccaccgaagg ccccaacagg ggatgctcat cactgg 456

<210> 56

<211> 510

<212> DNA

<213> Homo sapiens

<400> 56

acagtcctgc ttagagccct taaaagact tgaaagtca ctgggactca gtttaccta 60
atgccttagc agaagataaa tcctacctag agaccttgt tccttaaagc aataactgac 120
aactcttgt agtcctcctt gtgggtagtt aagagtgggg tcacccttt aactccaagc 180
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gccaccccg gcattggctc aggtggcctg gtgactccat gatggacgat ctgctcca 420
ggactgcct ctccaggc tcctgggga agagtgtac gccaggcaa caagggtga 480
gctgcgttg cgtggctgtt tcataccgc 510

<210> 57

<211> 522

<212> DNA

<213> Homo sapiens

<400> 57

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attttcgt ccttttct ccactcca ctgacaaag tccccagcg ttccactg 180
tgggttcag gtgtttcaa gcacaacca ccacaacaag caagtgcatt ttcagtgtt 240
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atttattcc agtggctatg ctgagcctg ctgctctgc tggcgaggt gccatgcctg 360
ctccctgtct gtgtccagc cagcagggc catccactgt gacgtcgcc gaccaggctg 420
gacacctct gccagtaat gacgtgtgtg gctgggacct tcttattct gtgttaatgg 480
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<210> 58

<211> 356

<212> DNA

<213> Homo sapiens

<400> 58

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tcttagcat tctaaaatt caagaaaata aactaagct ctttgagaac tgcttctaag 180
atgccagcat atactgaagt ctttctgt accaaattg tacctctaag tacatatga 240
gatattgtt tctgtaata acctattt ttctctatt ctctcaatt tgtttaaaga 300
ataaagtcca aagtctgat tggctagt aacctagaag tattttgtc tcttag 356

<210> 59

<211> 381

<212> DNA

<213> Homo sapiens

<400> 59

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 ctctagtggg acagcccaga gcctggctgc cccatcatgt ggccccaccc aatcaaggga 180
 agaaggagga atgctggact ggaggcccct ggagccagat ggcaagaggg tgacagcttc 240
 ctttcctgtg tgtactctgt ccagttccti tagaaaaaat ggatgccag aggactccca 300
 accctggctt ggggtcaaga aacagccagc aagagttagg ggccttaggg cactgggctg 360
 ttgtccatt gaagccgact c 381

<210> 60
 <211> 441
 <212> DNA
 <213> Homo sapiens
 <400> 60

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 gacacctgg atccggccct gctacggcca ggacggctgg accgtaaaat tgaattcca 180
 cttcctgacc gccgccagaa gagattgatt ttccacta tcactagcaa gatgaacctc 240
 tctgaggagg ttgacttga agactatgtg gcccgccag ataagatttc aggagctgat 300
 atcaactcca tctgtcagga gagtggatg ttggctgtcc gtgaaaaccg ctacattgtc 360
 ctggccaagg acttcagaa agcatacaag actgtcatca agaaggacga gcaggagcat 420
 gagttttaca agtgacctt c 441

<210> 61
 <211> 442
 <212> DNA
 <213> Homo sapiens
 <400> 61

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 gaggaagggc tcctgacaca cagcgaggaa gagctggaac acagccagga cacagacgcg 120
 gatgatgggg cttgacagta agcagcctga caggagcaat ggccaccagc aggtgaaggg 180
 catcgtgcc ccaggcctca agccgggcac ccaaccctgg atgccacccc ccagcgggta 240
 ccagaggaaa gctggcagca ggcgcctcct ccccaacgc atccagcca gtgccatgtc 300
 ctctgcaggt ggagtactg gcctactcct tcccatgag cctccctgt ctgcactgcc 360
 caggccagag ggtagagcac aggggttcc ccatactacc tcccctccc aggacactcc 420
 caggcttggg tttttctat ag 442

<210> 62
 <211> 524
 <212> DNA
 <213> Homo sapiens
 <400> 62

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 atggcaaaat aatcattgaa aataagccta agaaagaatt aattaaagt ctgattcaga 180
 ggggatatga ttcggtcct gtgaaggcct ggaaagaagc ccagcaaaag gttccagatg 240
 aagaagaaaa tgaagagagt gacaacgaaa aggaactga aaagagtgc tccgtaacag 300
 attctggacc aacctcaac tatctcttg atatgccctt ttgtattta accaaggaaa 360
 agaaagatga actctgcagg ctaagaaatg aaaaagaaca agagtggac acattaaaaa 420
 gaaagagtcc atcagatttg tggaagaag acttggtac attattgaa gaattggagg 480
 ctgttgaaag caaggaaaaa caagatgaac aagtcggact tcct 524

<210> 63
<211> 416
<212> DNA
<213> Homo sapiens
<400> 63

gagggacat gtgtcacttg tgtttgctc ttgtccacg tgtctccac ttgcatatg 60
agccgtgaac tgtgcatagt gctgggatgg aggggagtgt tgggcatgtg atcacgcctg 120
gctaataagg ctttagtgta tttatttatt tatttatttt atttgtttt cattcatccc 180
attaatcatt tccccataac tcaatggcct aaaactggcc tgacttgggg gaacgatgtg 240
tctgtatttc atgtggctgt agatcccaag atgactgggg tgggaggtct tgctagaatg 300
ggaagggtca tagaaaggcg cttgacatca gttcctttgt gtgtactcac tgaagcctgc 360
gttggtccag agcggaggct gtgtgcctgg gggagtttc ctctatacat ctctcc 416

<210> 64
<211> 556
<212> DNA
<213> Homo sapiens
<400> 64

tacagcgtat aggtgcagcc ctgtcacaac accaacagaa gtagcagcct ctgggtgcag 60
tcaccacac cccaaagctg gaaggatctg gttcaacata gcacaaacc ttaggaaaaa 120
tgaaattaac atcactgatg tgtaatccag taaaatctcc cttttcggg tgtgtatgtg 180
ggcatgtgcc catttctatg tgtgtgtcta cgtgcagctc actaccaaca gcctcatgtg 240
cacttgacct gacagtgtc gctgagaact ctcaccaggt tggcgctga atgccttact 300
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gctggttggg acctctacag cticattctt tcacattaaa tagtgacctt ttcagtatt 420
ttccctcttc cctttataa attatgctaa agccacaaag cacatttttg gggatcatag 480
aagggtgggg ttccagaaag gcactctgtg gatggttcca ttgatgtggg atttccctac 540
ttgctgtatt ctacgt 556

<210> 65
<211> 453
<212> DNA
<213> Homo sapiens
<400> 65

ttgggggtata ggtctcatct cttcaggttc tcatgatacc acctttactg tgcttatttt 60
tttaagaaaa aagtgttgat caaccattcg acctataaga agccttaatt tgcacagtgt 120
gtgacttaca gaaactgcat gaaaaatcat gggccagagc ctcggcccta gcattgcact 180
tggcctcatg ctggaggagg gctgggcggg tacagcgagg aggaggagg aggccaggcg 240
ggcatggcgt ggaggaggag ggaggccggg cggtcacagc atggaggagg aggaggcg 300
tgctggtgtt cttattctgg cggcagcgcc ttctctcca tgtttagtga atgactttc 360
tcgcattgta gaattgtata tagactctgg tgttctattg ctgagaagca aaccgccctg 420
cagcatccct cagcctgtac cggtttggt ggc 453

<210> 66
<211> 533
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (360)..(361)

<223> n is a, c, g, or t

<400> 66

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caatgggaag cccgggggag gggtttggca tgaggaagcg ttggttacag cagctgattg  120
gctgcagcca agactgtgaa aggataaaga ggcgcgaggc ggaattgggg tctgctctaa  180
gctgcagcaa gaaaaactgt gtgtgagggg aagaggcctg ttctgctgtc ggtctcttag  240
ttctgcacg ctctttaaga gtctgcactg gaggaactcc tgccattacc agtcccttc   300
ttgcagaagg gagggggaaa catacattta tcatgccag tctgttgcac gcaggctttn   360
nggcttccta ccttgcaaca aaataattgc accaactcct tagtgccgat tccgccaca   420
gagagtcctg gagccacagt ctttttgct ttgcattgta ggagagggac taagtgctag   480
agactatgtc gcttctctga gctaccgaga gcgctcgtga actggaatca act       533
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<210> 67

<211> 408

<212> DNA

<213> Homo sapiens

<400> 67

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gtaaaccaca tctttttgc actttttta taagcaaaaa cgtgccgttt aaaccactgg   60
atctatctaa atgccgattt gagtgcgca cactatgtac tgcgttttc attctgtat   120
ttgactattt aatcctttct actgtcgcct aaatataatt gtttagtct tatggcatga   180
tgatagcata tgtgtcagg tttatagctg ttgtgtttaa aaattgaaaa aagtggaaaa   240
catctttgta cattaaagtc tgtattataa taagcaaaaa gattgtgtgt atgtatgtt   300
aatataacat gacaggcact aggacgtctg ctttttaag gcagttccgt taagggttt   360
tgtttttaa ctttttttg ccatccatcc tgtgcaatat gccgtgta       408
```

<210> 68

<211> 526

<212> DNA

<213> Homo sapiens

<400> 68

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ccctttggtc tgggtccagt tctggaaaac agtcagggtc agctgatcta cgagtctgcc   60
atcacctgtg agtacctgga tgaagcatac ccagggaaga agctgttgcc ggatgacccc  120
tatgagaaag ctgccagaa gatgatctta gattgtttt ctaagggtcc atccttggtgta  180
ggaagcttta ttagaagcca aaataaagaa gactatgctg gcctaaaaga agaatttcgt  240
aaagaattta ccaagctaga ggagggtctg actaataaga agacgacctt ctttggtggc   300
aattctatct ctatgattga ttacctatc tggccctggt ttgaacggct ggaagcaatg   360
aagttaaag agtgtgtaga ccacactcca aaactgaaac tgtggatggc agccatgaag   420
gaagatccca cagtctcagc cctgcttact agtgagaaag actggcaagg ttctctagag   480
ctctacttac agaacagccc tgaggcctgt gactatgggc tctgaa       526
```

<210> 69

<211> 432

<212> DNA

<213> Homo sapiens

<400> 69

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gccacagact gaactgcag ggagtgcagc aggaaggaac aaagacaggc aaacggcaac   60
gtagcctggg ctactgtgc tggggcatgg cgggacctc cacagagagg aggggaccaa  120
ttctggacag acagatgttg ggaggataca gaggagatgc cacttctac tcaccactac  180
cagccagcct ccagaaggcc ccagagagac cctgcaagac cacggaggga gccgacactt  240
```

gaatgtagta ataggcaggg ggccctgccca ccccatccag ccagacccca gctgaacct 300
gcgtcagggg cctagagggt gagttcttag ctatccttgg ctttctgtgc cagcctggct 360
ctgccccctcc cccatgggct gtgtcctaag gcccatttga gaagctgagg ctagttccaa 420
aaacctctcc tg 432

<210> 70

<211> 450

<212> DNA

<213> Homo sapiens

<400> 70

gaatttcttg gtgattacag gtgggatcca actgcaaatg aagatccaga atggatactt 60
gttgagaaag acagattcgt gaattgattat gacaaagata acgatggcag gcttgatccc 120
caagagctgt taccttgggt agtacctaata aatcagggca ttgcacaaga ggaggcactt 180
catctaattg atgaaatgga ttgaatggt gacaaaaagc tctctgaaga agagattctg 240
gaaaaccggg acttgtttct caccagtga ggcacagatt atggcagaca gtcctatgat 300
gactatttct atcatgatga gctttaatct ccgagcctgt ctcatagag tactggctcc 360
tttataatt tgtaccagc ttacttttg tgataaaata ttgatgtgt attttacact 420
cttaagtctt aaccacagtc agaattatct 450

<210> 71

<211> 477

<212> DNA

<213> Homo sapiens

<400> 71

gatatcttc caaacgtatt gagcaacaaa atattaatat tgtgccatat gacaacaaag 60
tcttctctaa atactccatc tgttttagtac tgtattgttg aatatttgag ttctatttcc 120
agacttgaaa acatggagga tttagagat gcctgaacaa tattatttaa gtagtatgtg 180
accgagctat aaatttttgg ttttgttct aagtagattt aatttgggaa ctgacaggac 240
aatgttttta ggttttagcat ttgttttaa aaccttttaa gaaaccttta gaaggactta 300
gacctcacat attaatgttg agaagtctg cttaatttta aaatggtttc tataaagggt 360
tttattgtat gaaatagaac ttatatattt tgcataatga tagaggataa ttatatattaa 420
tgtataacta tagcattatg gtgagtggaa ttgacattg tccaaacctt ttccatt 477

<210> 72

<211> 497

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (432)..(432)

<223> n is a, c, g, or t

<400> 72

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ccagctgcgg atgggagctg ttcttgaca gccttctact gcctgggaag tgatggaaca 120
ggaactcagg gtgcccttac cccctccca gacctgttc ctttcttga ctgacagagc 180
accatccagg caaaattaga gcgccaaatg gtttcttct caatcttaa gcagtatacc 240
ttccacagg ctgctctgtg tccctgccac tctgagttat ccagaaacca ccactacaa 300
atgaggggac tcactagaa gacctctaag gtcccctttt ggctctgagg ggtctctaat 360
aatccccact tggaattcag caccgaagg aaattatggg tatgtgagcc ataatatgat 420

ggccagcagg tngcgtgcc ttccacccat ggtgatggat ggtttggaaa gggaatgttg 480
gtgccttttg tgccaca 497

<210> 73

<211> 481

<212> DNA

<213> Homo sapiens

<400> 73

gatgataatc cggaccatgc tgtatactcc acaggaaatg aaacagatca ttaaatccg 60
tgcccagacg gaaggaatca acatcagtga ggaggcactg aaccacctgg gggagattgg 120
caccaagacc acactgaggt actcagtga gctgctgacc cggccaact tcttgctaa 180
aatcaacggg aaggacagca ttgagaaaga gcatgtcgaa gagatcagtg aacttttcta 240
tgaagcgaag tcttccgcca aaatcctggc tgaccagcag gataagtaca tgaagtgaga 300
tggtgaggt ttcagcagc aagagactcc ccaggtgtgc ctggcctggg tccagcctgt 360
gggcgcttgc ccctgggctt ggggctgccg tccccactca ggcgtgggct gcagcgtgt 420
cagttcagtg tggaaagcat ttcttttaa gttatcgtaa ctgttcctgt ggttgctttg 480
a 481

<210> 74

<211> 469

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (40)..(40)

<223> n is a, c, g, or t

<400> 74

gacatccttc ttgacagaaa ctcatgaaa aagtttttgn ctgacacaga acaaacctga 60
aagtagtadc tactttctaa atactacttt gcttttcagt agtggatttg atattataa 120
tgtttcttaa agcttgcaac ttttcagca acgtttaaaa atagattaac ctggaataac 180
ttactgttt gctgctaaaa tactcaagat ttgcccattt taaacaacc agtccctgtg 240
atacaacttt gaaaaaactt ttaaaaatct ctgatgtatg ggctctttt tccccataag 300
aattatgtac atctgtgatg ttttacaggg ggatccgctt taaacagtg tacatattgg 360
accacactga aatgtcatat atcctttctc tacttaaaat tggttattta ctgtgagttc 420
atttccgatg tgttcttggg ttgtgctgtt ttctgcctga agacgtgta 469

<210> 75

<211> 455

<212> DNA

<213> Homo sapiens

<400> 75

caaagtctcc ttttagtcta gataatcatt atttcatttt aaaattagtg ttttcatag 60
tttgactga tgcgtgtatg gatgtgtgtg agtcagtggg agcttattta aaaagcacct 120
taccctttct ccataacct ttgtacacta aaaaatgaaa gaatttagaa tgtatttgat 180
gatagcattc tcactaagac acatgagaat ttaactttat aaccgcgtga gtttagattt 240
aatcatagg ttttgatgct attgtgaag ttattttaa tcagaaacc ttgctgtgt 300
gatacatagt aagtctcttc atttattact gcttgctgtg tgttatatct ggattatcaa 360
aagcaatagt gcaccaatta agatgtgctc aatcaggac taaatcata ggcaccacat 420
tttcatgtc agactagtta cttgttgat tctca 455

<210> 76

<211> 525

<212> DNA

<213> Homo sapiens

<400> 76

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tctggcatca gtttgctaca gtgagctcac atcaaatagg aaaatacttg aaatgcatgt    60
ctcaagctgc aaggcaaacct ccattctca tattaaacta ttacttctca tgacgtcacc    120
attttaact gacaggatta gtaaaacatt aagacagcaa acttgtgtct gtctctctt    180
tcatttcGC cgccaccaac ttactttacc acctatgact gtacttgta gtagagaat    240
ttttctgaat catattgggg aagcagtgt tttaaaacct caagtttta aacatgattt    300
atatgtctg tataatgttc agtttgaac tttttaaag ttggatgta tagagggata    360
aataggaaat ataagaattg gttattggg ggcttttta ctactgtat ttaaaaatac    420
aagggtattg atatgaaatt atgtaaattt caaatgctta tgaatcaaat cattgttgaa    480
caaaagattt gttgctgtgt aattattgtc ttgtatgcat ttgag                    525
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<210> 77

<211> 397

<212> DNA

<213> Homo sapiens

<400> 77

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ggagaacttg tctacaacca gggattgatt ttaagatgt cttttttat ttactttt    60
tttaagcacc aaatttgggt gttttttt tctccctcc cGacagatcc catctcaaat    120
cattctgta accaccattc caacaggctg aggagagctt aaacaccttc ttctctggc    180
ctgtttctc tttttttt tatttttc catcagtatt aatgttttg catacttgc    240
atctttattc aaaagtgtaa acittctttg tcaatctatg gacatgccca tatatgaagg    300
agatgggtgg gtcaaaaagg gataatcaat gaagtgatag gggtcacaat ggggaaattg    360
aagtgtgca taacattgcc aaaaatagtg gccacta                    397
```

<210> 78

<211> 329

<212> DNA

<213> Homo sapiens

<400> 78

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ctcttcgaga gaacctgtcg ccagtatgac aagctgcgta agcgggaggc ctctctggag    60
cagttccgca aggaggacat gtcaaggac aactttgatg agatggacac atccaggag    120
attgtgcagc agctcatcga tgagtacat gcggccacac ggccagacta catctcctgg    180
ggcaccagg agcagtgagt cccccaggac aggggaccct catctgcctt actggttggc    240
ccaagccctg cctgactgac caccctca gagcacagat cagggacctc acgcctct    300
ttctcatata catggactct ctgttgcc                    329
```

<210> 79

<211> 535

<212> DNA

<213> Homo sapiens

<400> 79

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ggagctggaa ctgtcacca aggccggctt ccgggccctt ctctctgccc cctggtacct    60
gaaccgtata tcctatggcc ctgactggaa ggatttctac gtagtggaa cctggcatt    120
tgaaggtacc cctgagcaga aggcctgggt gattggtgga gaggcctgta tgtggggaga    180
atatgtggac aacacaaacc tgggtcccag gctctggccc agagcagggg ctgttgccga    240
```

aaggctgtgg agcaacaagt tgacatctga cctgacattt gcctatgaac gttgtcaca 300
cttccgctgt gagggtgctga ggcgaggtgt ccaggcccaa cccctcaatg taggcttctg 360
tgagcaggag ttgaacaga cctgagcccc aggcaccgag gaggggtgctg gctgtagggtg 420
aatggtagtg gagccaggct tccactgcat cctggccagg ggacggagcc ccttgccttc 480
gtgccccttg cctgcgtgcc cctgtgcttg gagagaaagg ggccggtgct ggcgc 535

<210> 80

<211> 537

<212> DNA

<213> Homo sapiens

<400> 80

ccaccgctgg ctgggaggag tcggagactg agacctacac agagggtggtg acagagtttg 60
ggaccgaggt ggagcccagag ttggggacca aggtggagcc cgagtttgag acccagtttg 120
agcctgagtt cgagaccag ctggaacccg agtttgagga agaggaggag gagggagaaag 180
aggaggagat agccactggc caggcattcc ccttcacaac agtagagacc tacacagtga 240
actttgggga ctctgagat cagcgtccta ccaagacccc agcccaactc aagctacagc 300
agcagcactt cccaagcctg ctgaccacag tcacatcacc catcagcaca tggaaggccc 360
ctggtatgga cactgaaagg aagggtggt cctgcccctt tgaggggggtg caaacatgac 420
tgggacataa gagccagagg ctgtgtagag gtcctgctc cacctgccag tctcgtaga 480
gatggggttg ctgcagtgtt ggagtagggg cagaggagg gagccaaggt cactcca 537

<210> 81

<211> 483

<212> DNA

<213> Homo sapiens

<400> 81

ctgaagcgca gaaagctcgg ccggtacaac gaggaggagc gggctcagca ggaggccgag 60
ggcggccagc gcctggccga ggagaaggcc caggccagct ccatccccgt gggcagccgc 120
tgtgaggtgc gggcgggcggg acaatcccct cgccggggca ccgtcatgta ttaggtctc 180
acagatttca agcctggcta ctggattggt gtccgctatg atgagccact ggggaaaaat 240
gatggcagtg tgaatgggaa acgctacttc gaatgccagg ccaagtatgg cgcctttgtc 300
aagccagcag tcgtgacggt gggggacttc ccggaggagg actacgggtt ggacgagata 360
tgacacataa ggaattcccc tgcttcagct ctagctcag cactgactg cccctcctgt 420
gtgtgcccatt ggcccttttc tctgacccc attttaattt tattcatttt ttctttgcc 480
att 483

<210> 82

<211> 505

<212> DNA

<213> Homo sapiens

<400> 82

caaggtgaaa cactgcagtc ccggtgtggt ggctcccat gcaggacggg ccaggctggg 60
agtgccgctt tctgtgcca aattcagtg ggactcagtg ccaggccct ggcacgagct 120
ttggccttgg tctacctgcc aggcaggca aagcgcctt acacaggcct cggaaaacaa 180
tggagtgagc acaagatgcc ctgtgcagct gcccgagggt ctccggccac cccggccgga 240
ctttgatccc ccgaagtct tcacaggcac tgcacgggtt tgtctggcgc cttttcctc 300
cagcctaacc tgacatcatc ctatggactg agccggccac tctctggccg aagtggcgca 360
ggctgtgccc ccgagctgcc cccaccccct cacagggtcc ctgagattat aggtgcccag 420
gctgagggtga agaggcctgg gggccctgcc ttccggggcg tcttgagccc tggggcaaac 480
ctgtgacctt ttctactgg aatag 505

<210> 83
 <211> 299
 <212> DNA
 <213> Homo sapiens
 <400> 83
 tggccatccg ggacagtgcg cgacagggca agggccaggt ggagattgtc actgatgggg 60
 aggagcctgc tgagatgac caggtcctgg gcccgaagcc tgctctgaag gagggcaacc 120
 ctgaggaaga cctcacagct gacaaggcaa atgccagggc cgcagctctg tataaggctt 180
 ctgatgccac tggacagatg aacctgacca aggtggctga ctccagcccc ttgcccttg 240
 aactgctgat atctgatgac tgcttctgc tggacaacgg gctctgtggc aagatctat 299

<210> 84
 <211> 533
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (136)..(136)
 <223> n is a, c, g, or t
 <400> 84
 gaaaagtgcg tgcttcattt gaacaattca ttcagcagca gatggacttt cagtattta 60
 aaataaaatt ttgatccaaa gctcaggaca caaaccacag tggtaaaatt gagtagcata 120
 taatatcaga ctaaanttat ctgtaatttt ccacaacca gattgtatgt gttttatgtg 180
 tgtttaaata aatatgttag atacacgtgt atacatacac ccatatacaa cagatccaag 240
 actggctgac ttcatttgaa atggttgaat ctgctgtgta ataaagtggg tcaacctga 300
 ttaggaactg aaatttagta gaagagggaa aaggagttaa tgtaacaaat tattttagct 360
 acaaaccccg gtaatatagac acttggggga tgggatgggg tgggttgggt agacaatcag 420
 aatggtaaat tgattaaatg ctctaaccc tgtaattttg tgcataagac accctatgct 480
 gtggaaataa ctgttcttag atttcattgt aactggactg ttcaggttgc cca 533

<210> 85
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (117)..(117)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (119)..(119)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (339)..(339)
 <223> n is a, c, g, or t
 <400> 85

gaaactgcgc attctctagt agtatatatac gtgcctgtct tcaaaaacat ttccctttt 60
 atactcattc cccccaggca tggggtagtgc tcagtcggac tgcacaggga acacggninc 120
 cagtggcttt ggcccctact cgggaaacgt ctgcctgttc tcgatggtga tgggggtgct 180
 gccattccct tggtttctc aagcccttc taacgagagt ctcaacaag cggaggcgag 240
 ggccaattca accccattct tccagcgcc ccgcaccata gcacctgcc acctgagaac 300
 caggaacgca ccctctctgt ggagctctga ctggtgtanc tggaaacaaa cagcaactg 360
 caaacggacg aagagcctgc cgtgtgttaa tcattgcct tac 403

<210> 86

<211> 441

<212> DNA

<213> Homo sapiens

<400> 86

gttgtctgga aacctgctga ggaaattcaa aaacagcaac ggggtggcaga agctgtgggt 60
 ggtgttcaca aactctgcc tgttctcta caaatcacac caggacaatc atcccctgc 120
 cagcctgcct ctgctcggt actcgtcac catcccctct gagtccgaga acatccagaa 180
 agactacgtg ttaagctgc acttcaagtc ccacgtctac tacttcaggg cggaaagcga 240
 gtacacgttc gaaaggtgga tggaaagtgc ccgcagtgc accagctctg cctcgcgacc 300
 ccacgtgttg agccacaaag agtctctgt gtattgatgg ccggacacac tcgttccgc 360
 agtggctgct ttctggaag acgtttcct tcttctgtat taatgaagcc tggtaaaatt 420
 aacacctgc tgaaatcaa a 441

<210> 87

<211> 467

<212> DNA

<213> Homo sapiens

<400> 87

tatatgactt ggcagatcaa ctacatgctg cagttggtgc ttcccgctgct gctgttgatg 60
 ctggctttgt tccaatgac atgcaagttg gacagacggg aaaaatagta gcaccagaac 120
 tttatatgc tgttggaata tctggagcca tccaacattt agctgggatg aaagacagca 180
 agacaattgt ggcaattaat aaagaccag aagctccaat ttccaagtg gcagattatg 240
 gaatagttgc agatttattt aaggtagttc ctgaaatgac tgagatattg aagaaaaat 300
 gaatcaggat catgccttaa aaagaaaact ttgttaaag tattccactg aaatcacaga 360
 tatttgtggg tattataaca atcattggaa agcatggaga gctacattc ataattgag 420
 ggaaaattc taacagatgc cagaatgctt gttatggga ttgctgt 467

<210> 88

<211> 527

<212> DNA

<213> Homo sapiens

<400> 88

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 ccgccgcggg gatgctgagc ttggcgggc ggtggacgt tcctaagcag agctgcagc 120
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 ggctaagtgt tgctttctg aatgttctg gggtaccaat acgagttccc ataggggctg 480
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<210> 89
<211> 546
<212> DNA
<213> Homo sapiens
<400> 89

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tccagtgtcg gttttagaac aagaatgaag tcattttgga gtctttcatg tctaaaagat   180
ttaagttaaa aacaaagtgt tacttggag gttagcttct atcattctgg atagattaca   240
gatataataa ccatgttgac tatgggggag agacgctgca ttccagaaac gtcttaacac   300
ttgagtgaat ctcaaagga ccctgacatt aaatgctgag gctttaatac acacatattt   360
tatcccaagt ttataatggt ggtctgaaca aggcacctgt aaataaatca gcatttatga   420
ccagaagaaa aataatctgg tcttggaact tttatttta tatggaaaag ttttaaggac   480
ttgggccaac taagtctacc cacacgaaaa aagaaatttg cctgttcct ttgtgtacaa   540
ccatgc                                         546
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<210> 90
<211> 464
<212> DNA
<213> Homo sapiens
<400> 90

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gcaaaagatg caggtggatg tccctaggtc tgtttcaaa gaacttttc caagtgttg   180
tttatttat taagtgtcta cctggtaaat gtttttttg taaactctga gtggactgta   240
tcatttgcta ttctaaacca ttttacctt aagttaaat agtttctct cagctgtaaa   300
taacaggata cagaattaac aagagaaaat gtctaacttt ttaagaaaaa cttattttc   360
ttcggttttt gaaaaacata atggaaataa aacaggatat tgacataata gcacaaaatg   420
acactctct aaaactaaat gggcacaaga gaatttcct ggga                               464
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<210> 91
<211> 409
<212> DNA
<213> Homo sapiens
<400> 91

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cttgagcttg ggcttaggct tgggctcagc tttgaccct caggcatctc ctttcttc   180
ctgtcttct ctccttctc ctctgtgca gcatgatttt cttatcttc agacactcac   240
tatttcatg aacagttacc ctctgtcccc acaaccaaag acaactcatg gcctccttg   300
gcccttgtgt aacattgcaa acctgtggct ttgcaaatg taccagggtc acaaggggat   360
tttttttt ttagcaatga tatcctgtc tgggtcactt ttaagctt                               409
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<210> 92
<211> 481
<212> DNA
<213> Homo sapiens
<400> 92

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gcagagccgg tgttgatga gcgggagggt gtggacgagt acaatgagat gccatgcct 420
gtgtagccgc caccgagga cagccgaggg accgatggac gaggggacag gctggtggga 480
t 481

<210> 93

<211> 393

<212> DNA

<213> Homo sapiens

<400> 93

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aggccgagag caaatgaac gacctggtgt ccgagtacca gcagtaccag gacgccacgg 180
ccgaggaaga gggcgagatg tacgaagacg acgaggagga gtcggaggcc caggggccca 240
agtgaactg ctgcagctg gagtgagagg caggtggcgg ccggggccga agccagcagt 300
gtctaaacc ccgagccat ctgtctgccg acacctgct tccccatcg ccctagggct 360
ccctgcccgc cctctgcag tatttatggc etc 393

<210> 94

<211> 564

<212> DNA

<213> Homo sapiens

<400> 94

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ctggactatg agggagggtg ctgccgttc ctgcgtacg actgtgtgat ctctccccg 180
aggaagggtt gggcactcct gcacccggc cgcctcacc actaccacga ggggctgcca 240
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gggggatggg tctctctgtc tcccacttc ctgagttcat gtccgcgtg cctgaactga 420
atatgtcacc ttgtcccaa gacacggccc tctcaggaag ctcccgaggt cccgcctct 480
ctctccgcc cacaggggtt cgtgggcaca gggcttctgg ggactccccg cgtgataat 540
tattaatgt ccgagctc actc 564

<210> 95

<211> 474

<212> DNA

<213> Homo sapiens

<400> 95

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caggaaagt tggaagagag agtggctgt ttcagaaatt tcagtatga aatcaggcac 180
aacctctcag aagtgtctt tgccaccatg aacatctgt tcacacagtt taagaggctc 240
aaggggacaa gtccatctc gtcatccagg cccagcgag tcatcgagga ccgcgactct 300
caactccgaa gtcaagccg cactctgatt accttctgt gaatgatacc ataccgaacg 360
tctggggaca ccaatcgag gctggtgcag atggaggtcc tcataatta agtccatgc 420

tttgtgggag tctgggtcgg cacactgtca gtacatcagg cacatgggcc cact 474

<210> 96

<211> 448

<212> DNA

<213> Homo sapiens

<400> 96

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ttgccacaag tctgtggggc aagaggctgc aatattccgt cctgggtgtc tgggctgcta 180
acctggcctg ctcaggcttc ccacctgtg cggggcacac cccaggaag ggaccctgga 240
cacggctccc acgtccaggc ttaagggtga tgcactccc gcacctccag tcttctgtgt 300
agcagcttta acccacgttt gtctgtcacg tccagtcccg agacggctga gtgaccccaa 360
gaaaggcttc cccgacaccc agacagaggc tgcagggtg gggctgggtg aggggtggcg 420
gcctgcgggg acatttact gtgctaaa 448

<210> 97

<211> 271

<212> DNA

<213> Homo sapiens

<400> 97

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ccagagggcc agtatctat taggagactc ttggaattct taggttctac tcaagagtgg 120
aaggaccaat cacctctgat attctgtgga aggtttggg gtcaaattct gccctctgca 180
ttctgtgcaa cttgtataaa agtcaagtta gtattacatg aatttggggg agggttagt 240
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<210> 98

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (106)..(106)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (108)..(113)

<223> n is a, c, g, or t

<400> 98

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tactttaga aaaacctgt cacaactgat ttgaatgtc ctatntnnn nnncttgac 120
tttgatattg gcttgaatg tctctttca tcatatgtaa tatcagtga acaggcagcg 180
ctactcaagt cctaaggatt cctcagtgat cagtgatcca gggccgttca tgaaccactg 240
ggctggattt gactgttag tgtggcagtt aatgccctc aagaaatcaa aggatgtctt 300
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<210> 9?

<211> 497

<212> DNA

<213> Homo sapiens

<400> 99

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attgtgtgt tctcttctca aggctttgaa atctcccctt gcactgagat tagtcgtcag   180
atctctcccc gtctccctcc caacttatac gacctgattt ccttaggacg gaaccgcagg   240
cacctcgcgc gggcgcttta ctcccgctgc ttgttctgtc cctccctcg gaccaaacag   300
tgctcatgct tcaggacctt gttgtcgaa gatgttggtt tccctttctc tgtattttat   360
ataaaaataa ttatcaaaa ggatatttta aaaaagctag tctgtcttga aactgttta   420
ccttaaaatt atcagaatct cagtgtttga aagtactgaa gcacaaacat atatcatctc   480
tgtaccattc tgtacta                                     497
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<210> 100

<211> 540

<212> DNA

<213> Homo sapiens

<400> 100

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agtactggct gttgggtatg gagaaaaaaa tgggatccct tactggatcg tgaaaaactc   120
ttggggctcc cagtggggaa tgaacgggta ctctctcgc gagcgcggaa agaacatgtg   180
tggcctggct gctcgcgcct cctaccccat cctctggtg tgagccgtgg cagccgcagc   240
gcagactggc ggagaaggag aggaacgggc agcctgggccc tgggtggaaa tcctgccctg   300
gaggaagttg tggggagatc cactgggacc cccaacattc tgccctcacc tctgtgcca   360
gcctggaac ctacagacaa ggaggagttc caccatgagc tcaccctgt ctatgacga   420
aagatcacca gccatgtgcc ttagtgtcct tcttaacaga ctcaaaccac atggaccacg   480
aatattcttt ctgtccagaa gggctacttt ccacatatag agtccaggg actgtctttt   540
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<210> 101

<211> 329

<212> DNA

<213> Homo sapiens

<400> 101

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aagaagtacg aatcttatt ttctgtcct gcccgtgagg tgggggggac cgggccctc   180
tctagggacc cctcgcccca gcctcattcc caattctgtg tccatgtcc cgtgtctcct   240
cggtcgcccc gtgtttgcgc ttgacctgtg tgactgttt gcatgcgccc gaggcagacg   300
tctgtcaggg gcttgattt cgtgtgccg                                     329
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<210> 102

<211> 540

<212> DNA

<213> Homo sapiens

<400> 102

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gcagcctgac ctctagccct ggtggcagag gtcctcagc tgcgaggcta attgggtgac   120
caccgattcc agctgcggtt aatccagctt gggcctgtct gactgcgat cctctgggc   180
tctcctagga tcccccatg ccccgtaaga ggtggaagac gtttcctcc aggacagcag   240
gctttggagt ccgacacccc cagcctgcct ttgccaccag cccaaccct gcagagatat   300
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gaggcttgac agagtctgcc cctccccca ctgcaccca agagagagag cccagccag 360
cggaacagtt tctattaccc cctccctgcc ccagaccca tgtgatttct gctttcttct 420
ttagcaagat attctgggtt ctagataagg aagagtctct aatgagcccc cgagccccag 480
tctcttcaga ctcattggatt ggtctgaggg gtctgaacgt ctctagcca atcagaactg 540

<210> 103

<211> 513

<212> DNA

<213> Homo sapiens

<400> 103

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ttactctgc acttaaat tttaaataa catgatgat gtacatttc ctctattgtc 180
tagctaagg cttcgggtcc accagtaa ataatcaaat gctctaaat gttcctgtta 240
ccatccta atgtaaactg gattttctg tcatttagca ccatgctgt tctgtctgtc 300
ttaatgctg caataagatc atgagccct tttctccagt agtacaggct ttgaaaacta 360
cttctattaa gttattgatg caatttgata tttttcata atctatatt aaacaaat 420
acatcattgc atcatcttt ctaattcat ctccattaa actgccta agtaccaga 480
ttgctttgc caccattggc catactgtgt gtt 513

<210> 104

<211> 529

<212> DNA

<213> Homo sapiens

<400> 104

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tgggtagggt acacgtggac tctagtatgt aaatgttact tgaatctgtg cttcataata 180
gtgtgtggca tgtatgtgca gactcttggg tgccttatgc ctgcgcacca ggagccctgt 240
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tttgcccttg attctattt gctaattgga gatagaaagg agagaagggt tttttttt 360
tttaacattc tgaagatggt gctgtgtcaa gaaggacct tttttcccc tctcccctat 420
ttttaagta ccttgaggga ggagagggtg gtgacatgca tgggtgggat ctatggcctc 480
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<210> 105

<211> 524

<212> DNA

<213> Homo sapiens

<400> 105

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cacaatgat gaaaagaat agaacttct cattcatct tgaataacgt ctcttggtt 180
acctggtat tctagaatgt aaattacat aatgtgttt gttccaatta gcttgttga 240
acaggcattt aattaaaaa ttaggttta aatttagatg ttcaaaagta gttgtgaaat 300
ttgagaattt gtaagactaa ttatgtaac ttgcttagt attcaatata atgcattgtt 360
tggttcttt taccaaatta agtgtctagt tcttgctaaa atcaagtc atgcattgtt 420
tctaattaca agtatgtgt atttagatt tgccttagt gttgtactgc tgccatttt 480
attggtgttt gattattgga atggtgcat attgtcactc ctcc 524

<210> 106

<211> 532

<212> DNA

<213> Homo sapiens

<400> 106

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gattgaaggg tacaatccgc atccaactat taaaatggaa atggctgttt aggggtgcttt 120
caaaggagct tgaaggatat tgtcagtcct taggggttgg gctggatgcc gaggtaaaag 180
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aaggctttga gttaactcac tgagggtatc tgacaatgct gaggttatga acaaagttag 360
gagaatgaaa tgtatgtgct cttagcaaaa acatgtatgt gcatttcaat cccacgtact 420
tataaagaag gttggtgaat ttacaagct atttttggaa tatttttaga atattttaag 480
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<210> 107

<211> 402

<212> DNA

<213> Homo sapiens

<400> 107

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tgtaattgct tttaaatcat ttaaatgcct ttgttttgg actgtgcaaa ggttggaagt 120
gggtttgcat ttctaaaatg gtgactttta ttctgcaaga gttcttagta acttcttgag 180
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tggcaggtag acacactgcc ctattttatt ttgagtctaa gttaaatgtt ttctgaaaag 300
agatacatgc actgaactct ttccactgcg aatcaagatg tggtaatata aaaggatcaa 360
gacaaatgag atctaatact actgtcagtt ttaatgtcca ct 402

<210> 108

<211> 504

<212> DNA

<213> Homo sapiens

<400> 108

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ttctaaggta gcagcagctg ctctctgctt gtctcagaag gttctaggac aaggaaaatg 180
gaacttaag cagcagtatt acacaggata cacagagaat gaagtattgg aagtcatgca 240
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gaataagtat gcaagcagca aactcctgaa gatcagcatg atccctcagc tgaactcaaa 360
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<210> 109

<211> 512

<212> DNA

<213> Homo sapiens

<400> 109

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cccctcctgc cagggtggcg attccgctcc acagtctcgg acggatctgc tcagaaagga 120

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tgggactgac agcctgcagg gttccttgg gcgcggcccc aaaattgcct taaaacaaa 480
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<210> 110

<211> 212

<212> DNA

<213> Homo sapiens

<400> 110

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gagctgggca tccgacacgt actgctgacc atcaagtgc tgcgatcca ccctaacc 120
gagctgcac tcaacgagga ggccggccgc ctgctcttgg agaactacga ggagtatgcg 180
gctcgggccc gtctgctcac agagatccac gg 212

<210> 111

<211> 337

<212> DNA

<213> Homo sapiens

<400> 111

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cgatggccgc cgggaatctg tgcccccttc catcatcatg tcgtcgcaga aggcgctgg 240
gtcaggcaag ccagcagaga gctctgctgt agctgccact gagaagaagg cggtgactcc 300
agctcctccc ataaagagg gggagctgtc ctggac 337

<210> 112

<211> 330

<212> DNA

<213> Homo sapiens

<400> 112

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ctcaccactc tgtcaacggc tgcaacctgc ggccggggga ctcctggct tctgggacca 180
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agcccataga cctggggaat ggtcagacca ggaagttct gctggacggg gatgaagtca 300
tcataacagg gtactgccag ggggatggt 330

<210> 113

<211> 454

<212> DNA

<213> Homo sapiens

<400> 113

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gcaccacagt gaccctggcc tcagcgtggc aaatgcatgt aaatatttt cgtaggcagc 180

gtggctccag agagccccct gaagacagtg tccctccctc ctgtgagtc tttctctgt 240
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cttctctccc ctgaacctg ttattaacc atacctgtcc tgagttcatg gccaaaacct 360
taaataagaa aaacaaaaga aaaagacagt ggaaaaaaga gaccaaggcg cctgcccac 420
tgcgggtact ctctgttcc agccttga agga 454

<210> 114

<211> 459

<212> DNA

<213> Homo sapiens

<400> 114

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acagtatag aagacctgag gtataagtc tcgctagagt tcccagtggt ctacccttac 120
aatgcgccc cagtgaagt cctcacgccc tgctatcacc ccaactgga caccagggt 180
aacatatgcc tggacatcct gaaggaaaag tggctgccc tgtatgatgt caggaccatt 240
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gctgccgagc tctggaaaaa ccccacagct ttaagaagt acctgcaaga aacctactca 360
aagcaggta ccagccagga gccctgaccc aggctgccc gctgtcctt gtgtcgtctt 420
tttaatttt ccttagatgg tctgtcctt ttgtgatt 459

<210> 115

<211> 371

<212> DNA

<213> Homo sapiens

<400> 115

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ctagaccctc aaactgggtg ggttctgtgt caataaaaag cttaccccc tggctgagtg 180
agggtgtccc ctgcaatcac tgtttgtccc ctaccacccc aacctgtccc tgcctgtccc 240
cagcccactc atccttatgt gctagggata aatcaagagt cctcagcact ccacattccc 300
aaaaaatccc aggaactcct aaaccttccc ctgtgacaga agatgaggtt ggcagctgat 360
cagacctcaa t 371

<210> 116

<211> 319

<212> DNA

<213> Homo sapiens

<400> 116

tggaggtaaa actgggggag ctgccaagct ggatcttgat gcgggacttc agtcctagt 60
gcattttcgg agcgtttcaa agaggttact accggtacta caacaagtac atcaatgtga 120
agaaggggag catctcgggg attaccatgg tgctggcatg ctacgtgctc ttagctact 180
ccttttcta caagcatctc aagcacgagc ggctccgcaa ataccactga agaggacaca 240
ctctgaccc cccacccca cgaccttggc ccgagcccct cctgaggaa cacaatctca 300
atcgttgctg aatcctttc 319

<210> 117

<211> 352

<212> DNA

<213> Homo sapiens

<400> 117

gaagtgtcct ttatattacc agaaaatatg ggcttggcct aagtcgctgt ctctaacct 60
gccgggggtca ttccccacca aacaccccat actaaggagc catgagccac ctggacattc 120
accttttctt tgaccatctg gagtctgggg caacttaagg aggcaccaca cagtgggtgca 180
ggcacatttc caagcgtagg tgtccctggc tttgtggcc aaagctagt ttatgggtcaa 240
caacaggcca gggctctgtg ggcactgacc ttgaaagtgg caaatggag gttcacagg 300
ctgtgcggga gcaggacggc ttgcttcac taacaatctc agtttcctt aa 352

<210> 118

<211> 487

<212> DNA

<213> Homo sapiens

<400> 118

aaaagcactc tcacagata tctgacataa ttagatacaa tataacatt tactaagttc 60
agtattcatg ttttaaaggt gtttatactg atttgattgt gctggcaa atactgtatt 120
gttaatatg aactgtttat ttttcttta gtcttctat ttaattaact tcattgccgc 180
tggattctgt tcagccttta aaaatatttc ttagtgggtca ttgctctgca gaactcaaaa 240
agaaaattgt actgttcat agacattttt aaagggttaa ttattgttc agccttatcc 300
cttggcacgt aacagacta ctagacttat ttaggttcg ttgagcttt gtgtgtaaa 360
attaaaaatg ctctataaa gtttcaagg tagggagtga tttattatt gtgtatatct 420
aatatattaa gtatgtgtga tactaagggt tgaactgctat aattattgt actgttgatc 480
acatgta 487

<210> 119

<211> 476

<212> DNA

<213> Homo sapiens

<400> 119

cgtgaacgtc acccaggtat tcgtggacac cgtagggatg ccagagacat accaggcgca 60
gctgcagcaa agttttccc ggattgaggt gacgggtcaag gccaaagcag atgccctcta 120
cccgttggtt agtgctgcca gcatctgtgc caaggtggcc cgggaccagg ccgtgaagaa 180
atggcagttc gtggagaaac tgcaggactt ggatactgat tatggctcag gctaccccaa 240
tgatcccaag acaaaagcgt ggttgaagga gcacgtggag cctgtgttcg gcttcccca 300
gtttgtccgg ttacgtggc gcacggccca gaccatcctg gagaaagagg cggaagatgt 360
tatatgggag gactcagcat ccgagaatca ggagggactc aggaagatca catcctact 420
cctcaatgaa ggttcccaag cccgtccccg ttctccac cgatattcc tggaac 476

<210> 120

<211> 419

<212> DNA

<213> Homo sapiens

<400> 120

ctggcagctc ctctgagtgg ggagaggttg ggcagtgagt gagggacccc taatgcaggg 60
actagaagcc tcagtttccc cattttacc ttccacaaa tagcctctgt aggttaggct 120
gccccatccc accctactct gtgtggctgc tttcttgggt gccctcccct caccctactg 180
tagctgtgac gtgtgtagt ttttagatgt ttgtaaaatg tttaaaaaaa tgttaaaagg 240
aaaaaaagtga aaataacaaa aaagaaaatc aaaattcacc ttctcatgc tgcgtccagt 300
gccccaaccc tgtggctact ctccccatt ttgaacactg taccaggtgg tgactgttta 360
actcttgggt gtctgtgctc aaaagactgc ctctccagt gccagtgtga tgagtgtgt 419

<210> 121

<211> 438

<212> DNA

<213> Homo sapiens

<400> 121

```
gccccctggag tcgcggagaa agggccgtaa ccggaggacc cacgcccctg agcctcgcgc   60
tgagcggggg ccgcgcagcg caacgcactg gtgaccagac tgtcccccacg ccgggaacca   120
agcaggagac gacagcgag agaggagcca gacagaccct gaaaagaagg acgggttggg   180
gccgggcaca ttgggggtca ccggccgatg gagacaccaa ccgacaggcc ctggctgagg   240
gcagctgcgc gggcttattt attaacagga taaccctga atgtagcagc cccgggaggg   300
cggcacaggt cgggcgcagg attcagccgg aggggaaggga cggggaagcc gagctccaga   360
gcaacgacca gggccgagga ggtgcctgga gtgccaccc tgggagacag accccacctc   420
cttgggtagt gagcagtg                               438
```

<210> 122

<211> 471

<212> DNA

<213> Homo sapiens

<400> 122

```
gattggttc gacccaagct caactatcga gtgccagcc ggggccataa actgactgtg   60
accctgtcat gtggcagacc ttccatccga accacggctt gggaagacta catttggttc   120
caggcaccag tgacatttaa aggttccgc gagtgaatga gtgcttcta atcctaaaaa   180
cacaatggct gaattatctt tctccatgtg gcgctgaatc acctatctgg ttggagcta   240
gagttgcttc ctggtgagag aggaagcaac tctcctctg gttgtctgcc tcccctcaga   300
tttctgata ggctgatggc atgtggctgt gactgtgact gtaatcattg ctgaacaaca   360
tctcttgaa tcaagggttg atttcccag aggggtgctgg gtcaggcatt tctattagga   420
gttggaagc aaaaatgggt ccatagacac tctatggagg tgtcccttc t                               471
```

<210> 123

<211> 475

<212> DNA

<213> Homo sapiens

<400> 123

```
gagtggcgag ctcataagcc ttagagagga ggtgaccac cttaccgct cacttcggcg   60
tgcggagaca gagacaaag tgctccagga ggcctggcag gccagctgga ctccaactgc   120
cagcctatgg ccaccaattg gatccaggag aaagtgtggc tctctcagga ggtggacaaa   180
ctgagagtga tttcctgga gatgaaaaat gagaaggaaa actcctgac aagttccaga   240
gccccataga atatcctaga ggagaacctt cggcgctctg acaaggagt agaaaaacta   300
gatgacattg ttcagcatat ttataagacc ctgctctcta ttccagagg ggtgagggga   360
tgcaagaac tacagggatt gctggaattt ctgagctaag aaactgaaag ccagaatttg   420
tttacctct tttacctgc aataccccct taccacaata ccaagaccaa ctggc                               475
```

<210> 124

<211> 482

<212> DNA

<213> Homo sapiens

<400> 124

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tatagagttt atctacacgg cccctcctc ggcagtgtgt ggggtctcgc tggacgttgg   60
aggaaagaag gaatatctca ttgaggaaa ggccgagggg gacggcaaga tgcacatcac   120
cctctgtgac ttatcgtgc cctgggacac cctgagcacc accagaaga agagcctgaa   180
ccacaggtac cagatgggct gcgagtgcaa gatcacgcgc tgcccatga tcccgtgcta   240
```

catctcctcc ccggacgagt gcctctggat ggactgggtc acagagaaga acatcaacgg 300
gcaccaggcc aagttcttcg cctgcatcaa gagaagtgc ggctcctgtg cgtgggtaccg 360
cggcgcgggcg cccccaagc aggagttct cgacatcgag gaccataag caggcctcca 420
acgcccctgt ggccaactgc aaaaaagcc tccaagggtt tcgactgggtc cagctctgac 480
at 482

<210> 125

<21 1> 530

<212> DNA

<213> Homo sapiens

<400> 125

tgcttggtgt gaccacgga ggatccactc ccaggatgac gtgctccgta gctctgctgc 60
tgatactggg tctgcgatgc agcggcgtga ggcctgggct ggttgagaa ggtcacaacc 120
cttctctgtt ggtctgcctt ctgctgaaag actcgagaac caaccaggga agctgtcctg 180
gaggtccctg gtcggagagg gacatagaat ctgtgacctc tgacaactgt gaagccaccc 240
tgggctacag aaaccacagt ctcccagca attattacaa ttctgaatt ccttggggat 300
ttttactgc cctttcaaag cacttaagt ttagatctaa cgtgttcag tgtctgtctg 360
aggtgactta aaaaatcaga acaaaacttc tattatccag agtcatggga gactacacc 420
tttccaggaa taatgtttg ggaaacactg aaatgaaatc ttccagtat tataaattgt 480
gtatttaaaa aaagaaaact ttctgaatg cctacctggc ggtgtatacc 530

<210> 126

<21 1> 504

<212> DNA

<213> Homo sapiens

<400> 126

tccgcattgg cacttctggt gggataggct tggagcccg cactgtgggtc ataacagagc 60
aggcagtgga tacctgcttc aaggcagagt ttgagcagat tgcctgggg aagcgggtca 120
tccggaaaac ggaccttaac aagaagctgg tgcaggagct gttgctgtgt tctgcagagc 180
tgagcgagtt caccacagtg gtggggaaca ccatgtgcac ctgggacttc tatgaagggc 240
aaggccgtct ggatggggct ctctgctcct acacggagaa ggacaagcag gcgtatctgg 300
aggcagccta tgcagccggc gtccgcaata tcgagatgga gtcctcggtg ttgcccga 360
tgtgcagcgc ctgcggcctc caagcggccg tgggtgtgtg caccctcctg aaccgcctgg 420
aaggggacca gatcagcagc cctcgcaatg tgctcagcga gtaccagcag aggccgcagc 480
ggctggtgag ctactcatc aaga 504

<210> 127

<21 1> 477

<212> DNA

<213> Homo sapiens

<400> 127

gtggccgtag caacttggcg gagacaggct atgagtctga cgtagagtg gttgcttct 60
tagccttca ggatggagga atgtgggcag ttgacttca gactgaaaa cctctccacc 120
tgggccaggg ttgcctcaga ggccaagttt ccagaagcct ctacctgcc gtaaaatgct 180
caaccctgtg tcttgggctt gggcctgctg tgactgacct acagtggact ttctctctgg 240
aatggaacct tcttaggcct cctggtgcaa cttattttt tttttaatg ctatcttcaa 300
aacgttagag aaagtcttc aaaagtgcag ccagagctg ctgggccac tggccgtcct 360
gcatttctgg ttccagacc ccaatgcctc ccattcgat ggatctctgc gttttatac 420
tgagtgtgcc taggttgccc ctatttttt atttccctg ttgcgttgct atagatg 477

<210> 128
<211> 460
<212> DNA
<213> Homo sapiens
<400> 128

```
gttcctgcag aaggcgctcg agatccttcg gaaagacttc agtgagctga ggtccgcagg   60
ggtggagcag ctcatgtaca tcaaggagga ctgatcatc cctcaccatc acagcttcta   120
cgacttcac gtcaccaagg cacgggggaa gagtggacca ctcttcaact ttgatgtca   180
tgacgatgtg cggttgctca gtgacgccac tgtggagaag gatgagtccc atgcaggcaa   240
ggtggtgctg aggagctggt acgagaagaa caagcacatc ttcccgcga gccgctggga   300
accctacgac cctgaaaaga agtgggacaa gtacacgac cgctgagcat ccaggaggct   360
gcgcggcccc ggctcctcag ctccctcagt gtgccccgtg gtgtaccgg gactccaggc   420
accgctccc ctgcgacct gccaggcacg ctgggaggag                               460
```

<210> 129
<211> 526
<212> DNA
<213> Homo sapiens
<400> 129

```
gaactgttc agaccgttt agcacggaaa cctaaatgt gcagcttct tgagtggcga   60
gatctgaaga ttgtttacaa aagatatgct agtctgtatt ttgctgtgc tattgaggat   120
caggacaatg aactaattac cctggaaata attcatcgtt atgtggaatt acttgacaag   180
tatttcggca gtgtctgtga actagatc atctttaatt ttgagaaggc ttattttatt   240
ttgatgagt ttcttttggg aggggaagt caggaaacat ccaagaaaaa tgccttaaa   300
gcaattgagc aggtgatct actgcaggag gaagctgaaa cccacgtag tgttcttgaa   360
gaaattggac tgacataact ctctccctt gttgatgact tcttgaggca ttacacacac   420
ttagatggt cactcccttc atgtccatgt tagctcatgg tgtaagatga tgtctgtca   480
gtattactgt ttgctaagc cgcttcattc atgcctacac aatttt                               526
```

<210> 130
<211> 463
<212> DNA
<213> Homo sapiens
<400> 130

```
gggaaccggt gactcagaaa gacagatgtt ttgtaattt accccaaatg tgccatccac   60
atagtgttt ttctcttgc ccttcggctt gttgaatct cacaattatg tatttaattc   120
tcaaagaaat atgtatctgt agccgtttgt tgacactaat acagatgatt aaggaaaaca   180
gctgatcttt ggggaaggga gctaccaaca cttatacac acacacacgt gcacacacac   240
acacacacta tatatatata ttatttacg ggaaatttt cagggtttac aaaagagtat   300
gtgattggtg gtaagagaca cacagaatgt ttatgaagaa attgcatttt cttttcctt   360
tacatttgaa ctctttata gtttaaatat aacgtcttga gatggcacat tctacgatt   420
gaagaagggg tcttgatgc ccctaaactt gcataccag ttt                               463
```

<210> 131
<211> 255
<212> DNA
<213> Homo sapiens
<400> 131

```
ccgtggagct tcatcggggt ggtgcaggct cccaaactca ggcttcagc tgtgctttt   60
gcaaaagggc ttgcctaagg ccagccattt ttcagtagca ggacctgcca agaagattcc   120
```

ttctaactga aggtgcagtt gaattcagtg gggtcagaac caagatgccac acatcggtgt 180
ggactacagg acaaggggca ttgttgcttg ttgggtaaaa atgaagcaga agccccaag 240
ttcacattaa ctcag 255

<210> 132

<211> 560

<212> DNA

<213> Homo sapiens

<400> 132

ggctttcagc tctatcagag tgaccctagt ggaaattacg ggggatggaa ggccacatgc 60
attggaaata atagcgctgc agctgtgtca atgttgaaac aagactataa agaaggagaa 120
atgaccttga agtcagcact tgccttagct atcaaagtac taaataagac catggatgtt 180
agtaactct ctgctgaaaa agtggaaatt gcaacactaa caagagagaa tggaaagaca 240
gtaatcagag ttctcaaaca aaaagaagtg gagcagttga tcaaaaaaca tgaggaagaa 300
gaagccaaag ctgagcgtga gaagaaagaa aaagaacaga aagaaaagga taaatagaat 360
cagagatttt attactcatt tggggcacca ttccagtgtg aaagcagtc tactctcca 420
cactaggaag gctttacttt ttttaactgg tgcagtggga aaataggaca ttacatactg 480
aattgggtcc ttgtcatttc tgtccaattg aatactttat tgaacgatg atggttacc 540
ttcatggacg tcttaattct 560

<210> 133

<211> 470

<212> DNA

<213> Homo sapiens

<400> 133

ttctgagcca ccttgtggat cccaaggacc tggagccacg ggctgccaac tgcactcggg 60
tactgtgtg gcatactcg acagagaagc ccaagatgaa gcaggaggag cagctgcagc 120
ggcagggccg ggggtcagac ccagcaattg aggtgtgatg gcggcccccac cccaactacc 180
acctctttc aggcacagac ctgtgggac tgggccccag gcctgcccag gatgtggtt 240
tccaagtct gacccttga gccagaagtg gcccctctgc ccctccaggc ccaggggcatg 300
gtctgtctgc ttcacccctc ccctagcctg ccgtgtggca ctgcccacag gctggggaca 360
agcagccctt gtgttgatg aggttggccc tgtctagggt ggaacagaag gacagatgga 420
cccaggaggg agggcagctg agtaactggg taactattg gggctgggca 470

<210> 134

<211> 541

<212> DNA

<213> Homo sapiens

<400> 134

aaaacaggac atctgtgacc gcctacccc cagccagcc ccaaactaag atatccctca 60
caccagccc ccattaccta gggacaagag tcttcccag cctgaacct aggaccaaga 120
gccacctaca tccagcccca aaactggggc ttcaggccag agcatccatg gccaattca 180
aatttgaac ccagagacac tccatccac cttctccat gtcacccc aaactggggc 240
ctggagcaag gcactctcaa atcttgaacc ctggacaaa gctttccag accccacct 300
acctccaac ccaggtaag acattgcaa atcttgaact cagaaccaa gtgttccatg 360
cccctgtgtg gatggagtcg ggtatcctga ctgttgacc cctgtccag gtgatccga 420
ccctaccag tccatttgc cctctccag ctctgcttag gcatttgc cctaccca 480
atgttcaca ccacgacaa ccaaggggtg aggtggggac aggcctcagc agggaatggg 540

R

541

<210> 135

<211> 501

<212> DNA

<213> Homo sapiens

<400> 135

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tatgagttag ctttcttgc agccccctag tcggtcacca aactagtaac tagtggggct   60
taatgaaggt cataagtttc tgagatggga gagcaacaag tagagatgaa gttaaaggta  120
ttatcattc aagaaatcat tattgagtca ccaattgaca ggcaatttc taatcagtag   180
ttcactttaa tatttaataa gatttctgg gataacagta agggatatta gataatatac  240
cgtatgtatt tattactagt ctttctctt aggaaaaggg atactttgat aattaaggcc   300
agaggcccat tagttgagaa agtcacagat atatttctcc aagaaagcca acaaccacca  360
ccacaatgac agaaatgaca acaaggccct ttaactgtc ttctagttta gagacatcct  420
tcatttgaca tttagtagaa ttctcttgg gccacaagaa taagcagcaa ataaacaact  480
atggctgttg aggttctcat t                                     501

```

<210> 136

<211> 533

<212> DNA

<213> Homo sapiens

<400> 136

```

ttccaaagtc tctgctgtca agatagattc gagagaaagc acgtggccat gtatgcttta   60
accttaaaact gcatacacat gtagtgatac ctaggctgca tttagatcac cgtgtgctca  120
ggccagggtg gaatcctgag gtccatggag gtgcagagat gagattactc ctattcacgt   180
tgaagtgatt tgccttgta acaaaaaatt gcagctattg tctagcttcc attttttac   240
tgagaacttt aaattagtcc cctattagaa taggggtgct actcatcttt ttttaaaaac   300
cgaatttcat catttatcta aagagaaaat atgcagaata actggctctg ttaagagtgc   360
aatattatat ttttatgtaa aaataaaaaa taatttgggg ggattattta ttcagcatga  420
aacctaatat gtatatgttt gaaatacttc ataattgtca tgtttagca aacatttctg  480
taaattatca caagctctgt tacctttata tacgctgcct ctccaattg gaa       533

```

<210> 137

<211> 351

<212> DNA

<213> Homo sapiens

<400> 137

```

aaaacagcca agcttttctg ccaaaaagat gactgagaag actgttaaag caaaaagctc   60
tgttctgcc tcagatgatg cctatccaga aatagaaaaa ttcttccct tcaatcctct  120
agactttgag agtttgacc tgcctgaaga gcaccagatt gcgcacctcc ccttgagtgg   180
agtgcctctc atgatcctg acgaggagag agagcttgaa aagctgttcc agctgggccc  240
cccttcacct gtgaagatgc cctctccacc atgggaatcc aatctgttgc agtctccttc  300
aagcattctg tcgaccctgg atgttgaatt gccacctgtt tgctgtgaca t         351

```

<210> 138

<211> 542

<212> DNA

<213> Homo sapiens

<400> 138

```

ggcaaagcac acaggctgag cgctgaggag agggaccagc tgctgcaaaa cctgagggtc   60
gtggggtgga atgagctgga aggccgtgat gccatcttca agcagtttca ttcaaagac  120
ttcaacaggg cttttgggtt catgacaaga gtggccctgc aggtgagaa actggaccac  180

```

catcctgaat ggtttaacgt gtacaacaag gtccacatca cgctgagcac ccatgagtgt 240
gccggccttt cagaacggga cataaacctg gccagcttca tcgaacaagt agcagtgtcc 300
atgacataga cctgcccctt cctctttgaa ttctccggg ggaaggggtg actgaactgg 360
gagtccaggg agggagctga ggagccctta cctcccacc actcccctcc caagaccag 420
ccgccccgt tgagggtga gtccttctg tgggatgtgc cagtgtccc accaacacca 480
ggaattaga cctttccct gcaccactct cttcatcctg ggggtctgt tacactaatt 540
tg 542

<210> 139

<211> 549

<212> DNA

<213> Homo sapiens

<400> 139

ctggaggaca gcacctgtga cticggcaac ctcaagcgt atgcatgcac ctctcatacc 60
cagggcctga gccaggtg ctatgacacc tacaatgagg acatgactg ccagtggatc 120
gacataaccg acgtgcagcc tgggaactac atcctcaagg tgcacgtgaa cccaaagtat 180
attgttttg agtctgactt caccaacaac gtggtgagat gcaacattca ctacacaggt 240
cgctacgttt ctgcaacaaa ctgcaaaatt gtccatGct gatctccggg agggacagat 300
ggccaatctc tcccctcca aagcaggccc tgcctcccgg gcagcctcc gccgaggggc 360
ccagccccca accacaggc agggaggggc atccctccct gccggcctca gggagcgaac 420
gtggatgaaa accacaggga ttccggatgc cagaccccat ttatacttc actttctct 480
acagtgtgt ttgtgtgtg ttggtttta tttttatc ttggccata ccacagagct 540
agattgccc 549

<210> 140

<211> 558

<212> DNA

<213> Homo sapiens

<400> 140

acctcccgtg agaaagctgg tccacgaca agagtggca gcagaagatg agcaggtgtt 60
cctaataag caacagtcac tccttgcaa gcaaccagg actccacga gagcttctga 120
atctctgca agaggacct ctggctctc aaggaccag ggtcggggag ggccagccag 180
tgtgcctagc tctccccag gcacgtcagt aaaaaagccg gacccaaaca taaaaataa 240
tgcagcaagt gaaggggtgt tggccagctt ctcaacagt ctgttgagta aaaagacagg 300
ctctctgga agtcttgtg ctggtgggt gcagagcaca gccaagaagt caggacaaaa 360
gactgtgttg tcaaatgtc aggaagaact ggatagaatg actcgaaagc cagactctat 420
ggtaacaaac tctcaacag aaaatgaagc ctgaacctcc ttaaaaagt catatgtcga 480
atgaccaa atactatgtat attgatctgc taagaccagg attttctga tatggcacat 540
gctatcagtt tttgggg 558

<210> 141

<211> 518

<212> DNA

<213> Homo sapiens

<400> 141

tgaggctttg gccttaacac ccaggaaact ttctattaca atcgcttagg aagtaaagcc 60
ttgtctccct cctgttctc tgctcttgtt accctctga cccaccgct ctgccccact 120
cccagccctc ctgagcccca gccctgcctg cctgcccc ccagggggcc atgagtgcct 180
aggtttctca taccacaaa ggtcacagca ggggaggag ggacaattt ataataaacc 240
aaaaattcca tgtttgggg ggtggggggc ggaggagggt gaggggtgcc gcccatgggc 300

cacaaatctc tacaagtgcc tgctatccct ctccactcc ccacccagc accggtccaa 360
ccccctc cccagctgct cctaggactg gcccatgggc aggcgggtgg ggggatggga 420
agggggtgcc ctgaaaccaa actggaagcc ccctctgcct ccagctggg gcctctgggg 480
tggggtgggg ggctgtgggc aagccttatt ctgtattg 518

<210> 142

<211> 433

<212> DNA

<213> Homo sapiens

<400> 142

gtttgatgct cgctgggtaa catacttcaa caagccagat atagatgcct gggaattgcg 60
taaagggata aacacacttg ttacctatga tatggttcca gagcccaaaa tcattgatgc 120
tgctttgcgg gcatgcagac ggtaaatga ttttgctagt ctagtgcga tcttagaggt 180
tgtaaggac aaagcaggac ctcataagga aatctacccc tatgtcatcc aggaacttag 240
accaacttta aatgaactgg gaatctccac tccggaggaa ctgggccttg acaaagtgtg 300
aaccgcatgg atgggcttcc ccaaggattt attgacattg ctacttgagt gtgaacagtt 360
acctggaaat actgatgata acatattacc ttatttgaa caagtttccc ttattgagt 420
accaagccat gta 433

<210> 143

<211> 512

<212> DNA

<213> Homo sapiens

<400> 143

ccacgagttc acctatgcac tgatgccgca caagggtctt ttccaggatg ctggcgttat 60
ccaagctgcc tacagcctaa acttccccct gttggctctg ccagccccc gccagcgcc 120
cgccacctcc tggagtgcgt ttccgtgtc ttacccgcg gtcgtattgg agaccgtcaa 180
gcaggcggag agcagcccc agcgccgctc gctggtctg aggtgtatg aggccacgg 240
cagccacgtg gactgtggc tgcactgtc gctgccggt caggaggcca tcctctgcga 300
tccttggag cgaccagacc ctgctggcca cttgactcg ggacaaccgc ctgaagctca 360
cctttctcc cttcaagtg ctgtccctgt tgctcgtgct tcagcctccg ccacactgag 420
tccttggggc tggggtttg ttgtagaag gctctgggga ctctaattt ctgcttccc 480
agcctaaagc agggatcagt ctttctgt gg 512

<210> 144

<211> 500

<212> DNA

<213> Homo sapiens

<400> 144

aacactgcc gaatacttc tagctgctt gtaattttt aagagtgtta tttgtttt 60
gttttctgt tcttgtgtt ggctctgtt ttcattttg ttgtactgt agatctgtaa 120
ataaaattgc agtattttaa gcttaagctt tcaggaaaaa gaaaataaga attcagtgtg 180
tgcattgaca ctcgtgtgta tgagaaggag ggatatgaag gaagatggct tgcagagtaa 240
gtcgggtggc aattgtcagg gtgtgggaat tcttttctt acggggtacg tgattttgta 300
aaaagggaagt atttctcca aaattgggag taggcaaact actaatcagt ttagctttgt 360
gttgatgct agtttaaaaa agaaaatatg taatataatg taataaaaaa caaaaaaag 420
ctttatgat ggattttgta aatagattg ttacagggtg acctgttctc tagctgtgat 480
cttaccactt caaatgggtg 500

<210> 145

<21 I> 512

<212> DNA

<213> Homo sapiens

<400> 145

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tgaatgacct gacttttagc caccaggtac tctttaaaca gtttcctta tcagaggccc   60
tcctgtgctg gtgaccagc atctgagtta ggtccagca tgtaaagagc tgggagggcg   120
gagaattctt agcatattt cagacgtttt ttctgcacaa taataagtc atctgtcact   180
tgcattccac ttttgttac atagaaagag tctgaccctt taatccaaaa ggtcttttta   240
cattgtgaat gctgtgggaa ggcaatttct ctgcacacaa gaggtacgt ttgggaagt   300
atgtatgtta ttgatgact gaaaatgaac tgtaaagct cctagagtat attcctctgc   360
tgaacaaat taaacttcaa aaaaatctaa cagtaacaca cccctgcttg ggaccctagc   420
tatatgcatt ttatgtgacc ttgcatgct tcagtgaaca tactaattct atgtctagca   480
catgttgatt tcctatgtat tctgggtatt ct                               512
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<210> 146

<21 I> 562

<212> DNA

<213> Homo sapiens

<400> 146

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aggacaaact ctgtgtacct gtgcccaggt gaatgggcgc agggctctct tgcctgtcc   60
tgcggggggc cccacgagtt cctggcattc agcactgctt agcattctcg gaaggtttct   120
tcaactgctt gcttttccca ggcttgcctt tagtgtcatg taagacattt ttaagtata   180
tttattttgt tgggttttaa aattgcacag aacactaaga ccgaaaggct ggactcttgt   240
ttctccttga aagctttgcc ttgttttga acttctttc ccacttggtg gaaagagccc   300
agaagcagcc ctggccctgt aagatggact ctttcatcct tcagtgtat ttagcttga   360
gtttctctgc atctgtccac cccatgtgta tataaccag cccctggctc tggggtggtc   420
acctgctcag tgccttttgt tctggaggag aggaccccc cgctgccga gaggtctct   480
tctgttctg caccctctc cccatgggac ctgggagaaa actgaactgt taaaacccc   540
tgcacagtgc ctgtcaaca ga                               562
```

<210> 147

<21 I> 465

<212> DNA

<213> Homo sapiens

<400> 147

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atctcattc ttactgtct ttctgtggcc actttggaca agtcttggtg gactctcct   60
gggaaagagt ccctgaatct ctggtacgac tgcacgtgga acaacgacac caaaacatgg   120
gcctgcagta atgtcagcga gaatggctgg ctgaaggcgg tgcaggtcct catggtgctc   180
tccctcattc tctgtgtct ctcttcac cgtttcatgt tccagctcta caccatgcga   240
cgaggaggtc tcttctatgc caccggcctc tgccagcttt gcaccagcgt ggcggtgttt   300
actggcgctt tgatctatgc cattcacgcc gaggagatcc tggagaagca cccgcgaggg   360
ggcagcttcg gatactgctt cgccctggcc tgggtggcct tcccctcgc cctggtcagc   420
ggcatcatct acatccacct acggaagcgg gagtgcgcgc cccgc                               465
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<210> 148

<21 I> 493

<212> DNA

<213> Homo sapiens

<400> 148

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ggagttgtag cctctttaa cacctgagaa gccatgagag gacagatccc ataaatacct   60
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taagtgtaga ggggtctctg ttgtagaata gctcttaatt ttagagaaac cttcctggag 120
ggaaaccata ctctataat gagcaaagta acaacttcaa gcattttcc agcgttacca 180
tcaaactcac aaataggttg aaatccttta gttataactc agcctttagg aacaccggag 240
aaccacaat aatagaaatc tttcgtgtt cccattgag aaatgcttta gtagcatct 300
tcatgcttgg aaatctagac aagaagagaa tccatggatg gacatggtcg aggaattcgg 360
aaagcctgca gttgacattc agtcttactc tgaaactcaa aactgacact aggaacagct 420
tcatgagttc agtagaagta agctttattt gtagcttctg ccttgtttga cggcgtatct 480
attcagggaa gcg 493

<210> 149

<211> 480

<212> DNA

<213> Homo sapiens

<400> 149

caggcaggag gtcctgttag ccctgccttc caggaaggtt ggggtgggag tttgagtgg 60
gaaagaggat gacatgtgtg agagagtctt gagcctgttt gctagggaga gtgagtgagt 120
gctcttgggc actgctcagg ccgtttctgc tgacttgcct ggcttacaat aaatgcccaa 180
taaattttg ttgaccatat gtgtgtaca ctgtggtgcc ctgtccagtc cccttacca 240
agctgagacc cccatcccca gctgctctga gtttgggctg caagtgtca cagctctgt 300
tctccagaaa ctggagaatt gccctcagga gatgagagcc atctcacctc acccaggagt 360
cacttctct ctacaccca acacctggtt catttgatta aagcggagaa aactccaggg 420
tgctatgact gctctggcac ccttggatca ggccaagcta gacttttct gacccttcat 480

<210> 150

<211> 483

<212> DNA

<213> Homo sapiens

<400> 150

attcagcctg gcttcaaatt gtaagcatgc acaaattctg tctctggatt atattatgaa 60
gcttttatgt gaaacatgtt tctttgtaat gaaaaccaca ttggagatgt ttagtaatca 120
tattgttact ggtaccaaga ctactagga aatgcctttg tactttaggg aagtactttt 180
ggcattttac tgtacagaca gaaaaaactg agatgtagcc cctctcctgg aagtgctaata 240
ttgaaaaaac tgctcatatg atgtacatgt actgattact gcctatttta ataaacactc 300
ttgaaaaatg catgttgccc tgttgctgcc tgcctattc tctcatctc cccatcattg 360
gtaccacatt gcttttaaaa tccactttat ctggaataat gtaagacaaa tatgttctga 420
cataagtatt taattcatgt tgccttgcac aatgggtcaga ggcgcatgaa tttgtgaagg 480
tgg 483

<210> 151

<211> 145

<212> DNA

<213> Homo sapiens

<400> 151

ttctgaaca tgagtttgcg acgggaccag tgtgtcttga tgatgagaat gagtttctc 60
ctataatctt gtgccgtgga aatcagaagg gcaaaacgaa gcagtcatga tgagaagcac 120
acctcagaaa tcaggacatc cccc 145

<210> 152

<211> 539

<212> DNA

<213> Homo sapiens

<400> 152

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tgccagcgac tgtctcagac tgggcaggga ggctttggca tgacttaaga ggaagggcag   60
tcttgggacc cgctatgcag gtcctggcaa acctggctgc cctgtctcat ccctgtccct  120
cagggtagca ccatggcagg actgggggaa ctggagtgtc ctgtctgtat ccctgttg   180
agggtccttc caggggctgg cactgaagca aggggtgctg ggcccatgg ccttcagccc  240
tggctgagca actgggctgt agggcagggc cacttcctga ggtcaggtct tggtaggtgc  300
ctgcattctgt ctgccttctg gctgacaatc ctggaaatct gttctccaga atccaggcca  360
aaaagttcac agtcaaatgg ggagggggtat tctcatgca ggagacccca ggccctggag  420
gctgcaacat acctcaatcc tgtcccaggc cggatcctcc tgaagccctt ttcgcagcac  480
tgctatcctc caaagccatt gtaaatgtgt gtacagtgtg tataaacctt cttcttct   539

```

<210> 153

<211> 390

<212> DNA

<213> Homo sapiens

<400> 153

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gaaggtgtgg ttctatttc tcagtcacca acagatgaat aattatgctt aataataaag   60
tatttattaa gactttcttc agagtatgaa agtacaaaaa gtctagttag agtggtatta  120
gaatatattt atgttgatgt caaacagctg agcaccgtag catgcagatg tcaaggcagt  180
taggaagtaa atggtgtctt gtagatatgt gcaaggtagc atgatgagca acttgagttt  240
gttgccactg agaagcaggc ggggtgggtg ggaggaggaa gaaagggaag aattaggttt  300
gaattgcttt ttaaaaaaaa aagaaaagaa aaagacagca tctcactatg ttgccaaggc  360
tcattcttag aagcaggcgg gttgggtggg                               390

```

<210> 154

<211> 398

<212> DNA

<213> Homo sapiens

<400> 154

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ggctcccagc aagggtagga cgggccgcat gcgggcagaa agttgggact gagcagctgg   60
gagcaggcga ccgagctcct tccccatcat ttctccttgg ccaacgacga ggccagccag  120
aatggcaata aggactccga atacataata aaagcaaaca gaacactcca acttagagca  180
ataacggctg ccgcagcagc cagggaagac ctgtgttggg ttatgtgtc agtttcactt  240
ttccgataga aatttcttac ctattttt taagcagtaa ggcttgaagt gatgaaaccc  300
acagatccta gcaaatgtgc ccaaccagct ttactaaagg gggagggaagg gagggcaaag  360
ggatgagaag acaagtttcc cagaagtgcc tggttctg                               398

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<210> 155

<211> 562

<212> DNA

<213> Homo sapiens

<400> 155

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gaagaacctt cgaaacctgt ttgtcccag cccaccccca gtggatggga tgcataatgc   60
cagcaagttt tgttaacag caaaaaagga agattaatgc aggtgttata gaagccagaa  120
gagaaactgt gtcaccctaa agaagcatat aatcatagca ttaaaatgc acacattact  180
ccagggtgaa ggtggcaatt gctttctgat atcagctcgt ttgatttagt gcaaaaatgt  240
ttcaagactt atttaagga tgaaaaaag cctatttcta cattatacca actgagaaaa  300
aaatggtcgg taaagtgttc ttcataata aataatcaag acatgggtccc attgcagga  360
aaagtgcaga ctctgagtgt tccagggaag cacatgctgg acatcccttg taaccggta  420

```


tgggcgcccc tgcattgctg ggatgtttct gccacgggtt ttgtttgtgc aataacgtta 480
tcacatttct aatgaggatt cacattaata taatataaaa taaataggtc agttactggt 540
ctctttctgc cgaatgttat gt 562

<210> 156
<211> 268
<212> DNA
<213> Homo sapiens
<400> 156

tgccctgacc ccgatcagtt aaggagctgt gcaataacct tccatgtacc tgagtgagtg 60
tgtaacttat tgggttgccg aagcctggta aagctgttg aatgagtatg tgattctttt 120
taagtatgaa aataaagata tatgtacaga cttgtatttt ttctctgggtg gcattccttt 180
aggaatgctg tgtgtctgtc cggcaccccg gtaggcctga ttgggtttct agtcctcctt 240
aaccacttat ctcccatatg agagtgtg 268

<210> 157
<211> 490
<212> DNA
<213> Homo sapiens
<400> 157

ccctgaccca attgtcatca accatgtcat cagcgtggac ccttcagacc agaagaagac 60
agcgtgctat gacattgacg tggaggtgga ggagccatta aaggggcaga tgagcagctt 120
cctcctatcc acggccaacc agcaggagat cagtcctctg gacagtaaga tccatgagac 180
gattgagtc ataaccagc tcaagatcca gagggacttc atgctaagct tctccagaga 240
ccccaaaggc tatgtccaag acctgctccg ctcccagagc cgggacctca aggtgatgac 300
agatgtagcc ggcaaccctg aagaggagcg ccgggctgag ttctaccacc agccctggtc 360
ccaggaggcc gtcagtcgct acttctactg caagatccag cagcgcaggc aggagctgga 420
gcagtcgctg ttgtgtcgca acacctagga gcccaaaaac aagcagcacg acggaacttt 480
cagccgtgtc 490

<210> 158
<211> 496
<212> DNA
<213> Homo sapiens
<400> 158

cgctctcgtt tcattttctg cagcgcgcca cgaggatggc ccacaagcag atctactact 60
cggacaagta cttcgacgaa cactacgagt accggcatgt tatgttacc agagaacttt 120
ccaaacaagt acctaaaact catctgatgt ctgaagagga gtggaggaga cttggtgtcc 180
aacagagtct aggctgggtt cattacatga ttcatgagcc agaaccacat attcttctct 240
ttagacgacc tcttccaaaa gatcaacaaa aatgaagttt atctggggat cgtcaaatct 300
ttttcaatt taatgtatat gtgtatataa ggtagtattc agtgaatact tgagaaatgt 360
acaaatcttt catccatacc tgtgcatgag ctgtattctt cacagcaaca gagtcagtt 420
aaatgcaact gcaagtaggt tactgttaaga tgtttaagat aaaagtctt ccagtcagtt 480
tttctcttaa gtgcct 496

<210> 159
<211> 508
<212> DNA
<213> Homo sapiens
<400> 159

atccattgtc ctgtagttt cttccctcct gttctctggt tatagctggt cccaggtcag 60
cgtgggaggc acctttgggt tcccagtgcc cagcactttg tagtctcctc ccagattact 120
aaccttctct gatctggag aggcagggat agtaaataaa ttgctcttcc taccccatcc 180
cccatccct gacaaaaagt gacggcagcc gtactgagtc tgtaaggccc aaagtgggta 240
cagacagcct gggctggtaa aagtaggtcc ttatttaca ggctgcgta aagttgtact 300
aggcaaacac actgatgtag gaagcacgag gaaaggaaga cgttttgata tagtggtact 360
gtgagcctgt cagtgtggg taccaatctt ttgtgacata ttgcatgct gaggtgtgac 420
acctgctga ctcactgtat gtaaacccat cccagagctg gcgagaggat ggagctgggt 480
ggaaactgct ttgcactatc gtttgctt 508

<210> 160
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (251)..(251)
<223> n is a, c, g, or t
<400> 160
gaagatgagt ctatggcatc aggttcttaa acccaggaaa gcacctacag accggctcct 60
ccatgcactt taccagctca acgcatccac tctctgttct ctggcaggg cgggggaggg 120
gggataggag gtcccccttc ccctagggtg tctcataatt ccatttggg agagaacagg 180
agggccagat agatagggtc tagcagaagg cattgaggtg agggatcatt ttgggtcaga 240
catcaatgtc nctgtcccc ctgggtccag ccaagctgtg ccccatcccc caagcctcct 300
gggaggatcc agccaaatct tgcgactcct ggcacacacc tgtctgtaac ctgtttgtg 360
ctctgaaagc 370

<210> 161
<211> 544
<212> DNA
<213> Homo sapiens
<400> 161
aagatagccc aacctagctc agatccacca agataagcac agcaaaagct tggctgcatt 60
tttaggaat aaaaacctgc agaaagcacc gataacctc aagatctgaa tgagattcta 120
ttataaccg tctaaacgat tgcaaaatc ctcttttgg ttggaagca gcgtttgctc 180
tccgtggct cggattctct gaggaccagg gagttgacac acaaaccg ccatgggtcc 240
gagccagcta ttctcaagg ctcccacctc gccaaagctc caagggcctg ctggcagtgc 300
ctacgtgtg ccaactacct tgtctggtac agaccacggc tgggtaagca ccctaaaag 360
caacagaaat gacgtctgga agctgaaatg tgaaactgtc aagatggctt aggagaggaa 420
ggagtggacc cgctggctt tggcattttg tatttagaat tattctaact ttatacataa 480
tgtataggcc gatcttttg aaggataag gtttcattc ttgtgcaact cattattctc 540
atta 544

<210> 162
<211> 412
<212> DNA
<213> Homo sapiens
<400> 162
atggagatgg tactggagtc gccagtattt accgggggccc atttcagat gaaaatttta 60

aacttagaca ctcagctcca ggccctgctt ccatggcgaa cagtgggtcca agtacaaatg 120
 gctgtcagtt cttatcacc tgctctaagt gcgattggct ggatgggaag catgtggtgt 180
 ttggaaaaat catcgatgga cttctagtga tgagaaagat tgagaatgtt cccacaggcc 240
 ccaacaataa gcccaagcta cctgtggtga tctcgcagtg tggggagatg tagtccagac 300
 aaagactgaa tcaggccttc ccttctctt ggtggtgttc ttgagtaaga taatctggac 360
 tggcccccgt ctttcttcc ctgcctgctg ctgccccatt tgatcaagag ac 412

<210> 163

<211> 569

<212> DNA

<213> Homo sapiens

<400> 163

tgaggaaacc aatgaatgtg acttcaagaa tatggatagt ttacctctg gtaaaataca 60
 tcgaaaagtg aaaataatat taggacgaaa tagaaaagaa aatctggaac caaatgctga 120
 atttgataaa agaactgaat ttattacaca agaagaaaac agaatttga gtcaccgggt 180
 acagtcttta ctagacttgt ttacagactag tgaagagaaa tcagaatttt tgggtttcac 240
 aagctacaca gaaaagagtg gtatatgcaa tgttttagat atttgggaag aggaaaattc 300
 agataatctg ttaacagcgt ttttctcgtc ccctcaact tctacattta ctggctttta 360
 gaatttaaaa aatgcatact ttacagaagt gataaggatc atattctga aattttata 420
 aatatgtatg gaaattctta ggatttttt accagctttg ttacagacc caaatgtaaa 480
 tattaataat aaatatttgc aattttctac agaattgaat acctgttaaa gaaaaattac 540
 agaataaact tgtgactggg ctgttttta 569

<210> 164

<211> 375

<212> DNA

<213> Homo sapiens

<400> 164

ccgtccgctg ttactcagct gaggtgggtca cactgtggta ccgccaccg gatgtcctct 60
 ttggggccaa gctgtactcc acgtccatcg acatgtggtc agccggctgc atctttgcag 120
 agctggccaa tgctggggcgg cctcttttc ccggcaatga tgtcgatgac cagttgaaga 180
 ggatcttccg actgctgggg acgcccaccg aggagcagtg gccctctatg accaagctgc 240
 cagactataa gccctatccg atgtaccgg ccacaacatc cctggtgaac gtcgtgccca 300
 aactcaatgc cacagggagg gatctgctgc agaacctct gaagtgtaac cctgtccagc 360
 gtatctcagc agaag 375

<210> 165

<211> 549

<212> DNA

<213> Homo sapiens

<400> 165

gttttgctc acctaataagg ctgggagact gaagactcag cccgggtggc tgcagaaaaa 60
 tgattggccc cagtccctt gttgtccct tctacaggca tgaggaatct gggaggccct 120
 gagacaggga ttgtgttca ttcaatcta ttgttcacc atggccttat gaggcaggtg 180
 agagatgtt gaattttct cttccttta gtattcttag ttgtcagtt gccaaaggatc 240
 cctgatccca tttcctctg acgtccacct cctaccccat aggagttaga agttaggggt 300
 taggcatcat ttgagaatg ctgacacttt ttacgggctg tgattgagtg agggcatggg 360
 taaaaatatt tctttaaaag aaggatgaac aattataatt atatttcagg ttatatcaa 420
 tagtagagtt ggctttttt tttttttt ggtcatagt ggtggatttg ttgccatgtg 480
 caccttgggg ttttgaatg acagtgttaa aaaaaagca tttttttt atgattgtc 540

tctgtcacc

549

<210> 166

<211> 230

<212> DNA

<213> Homo sapiens

<400> 166

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cctcccatca gctctacatc tgagggacat ggtgtgccac aggctgcaag ctgcagggaa   60
tttcattgg atgcagttgt atagttttac actctagtgc catatatitt taagactttt   120
ctttccttaa aaaataaagt acgtgtttac ttggtgagga ggaggcagaa ccagctcttt   180
ggtgccagct gtttcatcac cagactttgg ctcccgttt ggggagcgcc           230
```

<210> 167

<211> 329

<212> DNA

<213> Homo sapiens

<400> 167

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atcccccttag tgctctgaaa tatttataaa atgatcttta tataactgtg gatcattcag   60
accagaaga gacaaaagag ttcagctcc tggcatcagc tctattcaaa tctggttcag   120
attttacagc tctgggcttt tctgatgtgg atcacaccta tgctcaaaga actcagctct   180
ttgacacctt agtaaatttc tttcctgaca gcatgactcc tcctaaaggc aacctcgtag   240
acctgatcac actgtaactg aagagtcact ggacacagaa atggaaaaca ggagtcgatt   300
ttccgtcttt tggattgcag ctccactga           329
```

<210> 168

<211> 437

<212> DNA

<213> Homo sapiens

<400> 168

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tccatctgcc ccaggacaag agcaagaagg acatcagttg cccagtcattg tgatcccctg   60
ccatcttgcc ttaggaaacag ccttccccca ccagcagcca tggctggctg gggcgttagc   120
caagccacct actgccagga attggagcct cagttccctc ctgtgtcaag tagctaactg   180
cagcagctgg actgagggca gagtctgtgg gtgcagagac cctgcatgta ggtcacaggt   240
tgaggccag ccactctccc tggggcctgg tgggtaggca agtagctctg gggccacctc   300
aagtgaccaa atgtatttaa ttccatcct ttacaggct gggccctagg caggaagctg   360
gcttctggga gaggagttag aacgtgcagg gcctgcctag ctgctgtgct tgaggaaggt   420
ggcattccgt gcttgcc           437
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<210> 169

<211> 554

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (52)..(52)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (59)..(59)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (252)..(252)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (513)..(513)

<223> n is a, c, g, or t

<400> 169

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gccttctggg aacctatgga gaaaggggaat ccaaggaagc agccaaggct gntcgcagnt   60
tccttagct gcacctcttg ctaacccac catcacactg ccacctgcc ctaggtctc   120
actagtacca agtgggtcag cacagggtcg aggatggggc tcctatccac cctggccagc   180
accagctta gtgtgggac tagccagaa acttgaatgg gacctgaga gagccagggg   240
tccctgagg cnccttagg ggcttctgt ctgcccagg gtgtccatg gatctccctg   300
tggcagcagg catggagagt cagggtgcc tcatggcag taggtctaa gtgggtgact   360
ggccacaggc cgagaaaagg gtacagctc taggtggggg tccaaagac gccttcaggc   420
tggactgagc tgcttccca cagggttct gtgcagctgg atttctctg ttgcatacat   480
gcctggcctc tgtctcccct tgttctgag tgnccccaca tggggctctg agcaggctgt   540
atctggattc tggc                                     554
```

<210> 170

<211> 309

<212> DNA

<213> Homo sapiens

<400> 170

```
ctcgaattc cctgaagcaa cactgccaga agtgtgttt ggtatgcact ggttcctaa   60
gtggctgtga ttaattattg aaagtggggg gttgaagacc ccaactacta ttgtagagtg   120
gtctattct ccttcaatc ctgtcaatgt ttgtttatg tttttgggg aactgtgtt   180
tgatgtgat gtgtttataa ttgtataca ttttaattg agcctttat taacatatat   240
tgttatttt gtctcgaaat aatttttag ttaaaatcta tttgtctga tattgtgtg   300
aatgctgta                                     309
```

<210> 171

<211> 302

<212> DNA

<213> Homo sapiens

<400> 171

```
cctccctatc gtctgaacag ttgtcttct cagcctctc ccgccccac cttgggaatg   60
taaatacacc gtgactttga aagttgtac cctgtcctt cctttacgc cactagtgtg   120
taggcagatg tctgagtcct taggtggtt ctaggattga tagcaattag ctttgatgaa   180
cccatcccag gaaaaataaa aacagacaaa aaaaaggaa agattgggtc tcccagcact   240
gtcagcagc cacagcctcc ctgtatgcct gtgcttggtc tactgataag ccctctacaa   300
aa                                     302
```

<210> 172

<211> 491

<212> DNA

<213> Homo sapiens

<400> 172

tgctctgccc cagcttgggc agatctccca catgccaggg gcctttgggt gctgttttgc 60
 cagcccatTTT gggcagagag gctgtgggtt gggggagaag aagtaggggt ggcccgaag 120
 ggtctccgaa atgctgtctt tcttgctccc tgactggggg cagacatggt ggggtctcct 180
 caggaccagg gtggcacct tccccctccc ccagccactc cccagccagc ctggctggga 240
 ctgggaacag aactcgggtg cccaccatc tgctgtctt tcttgccat ctctgctcca 300
 accgggatgg gagccgggca aactggccgc gggggcaggg gaggccatct ggagagccca 360
 ggtcccccc actccagca tcgactctg gcagaccgc ctctccgc cgcccagccc 420
 accccatggc cggcttcag gagctccata cacacgtgc ctccgtacc caccacaaa 480
 catccaagt g 491

<210> 173
 <211> 122
 <212> DNA
 <213> Homo sapiens
 <400> 173

ccggggctgg ttttctatga acgattccgg cctgggatgc gggccaggct gcaggcggca 60
 tagttgggcc cattcgtctt ggaaaggac tggggggtcc caactagcc ctgggtgggc 120
 eg 122

<210> 174
 <211> 536
 <212> DNA
 <213> Homo sapiens
 <400> 174

attccgatcc caatgagcaa gtgacaagaa aaaacatgct cctggctaca aaacagatat 60
 gcaaagagtt caccgacctg ctggctcagg accgatctcc cctggggaac tcacggccca 120
 accccatcct ggagcccggc atccagagct gcttgacca cttaacctc atctcccacg 180
 gcttcggcag ccccgcggtg tgtgccgagg tcacggccct gcagaactat ctaccgagg 240
 cctcaaggc catggacaaa atgtacctca gcaacaacc caacagccac acggacaaca 300
 acgcaaaaag cagtacaaa gaggagaagc acagaaagt aggtctcct cccgccccgc 360
 cctcccacg cctcaccagc cccccgcgc cccacctcc ggcgggtgac agctccggga 420
 tcagcaacc ttctgtctg tctactgtg gctgtgtctg ccgccgccgc cgccgccgt 480
 gcccttgggt ccccccagat ctccgggact gccctctga ctgtcagtgg ggcagc 536

<210> 175
 <211> 487
 <212> DNA
 <213> Homo sapiens
 <400> 175

gatgatttct cgaagccat gccagaagca gtcttcagg tcattctgta gaactccagc 60
 tttgtgaaa atcaggacc tcagctacat catacactga cccagagcaa agctttccct 120
 atggttcaaa gacaactagt attcaacaaa ccttgatatg tgtatgttt gccatattta 180
 atattaatag cagaggaaga ctctttttt catcactgta tgaattttt ataattgttt 240
 tttaaataat attcatgta tacttataaa ctaattcaca caagtgttg tcttagatga 300
 ttaaggaaga ctatatctag atcatgtctg atttttatt gtgactctc cagccctggt 360
 ctgaatttct taaggtttta taaacaaatg ctgctattta ttactgcaa gaatgcactt 420
 tagaactatt tgacaattca gactttcaaa ataaagatgt aaatgactgg ccaataataa 480
 ccatttt 487

<210> 176

<211> 504

<212> DNA

<213> Homo sapiens

<400> 176

```
ccggctatgg gctcgagccg agttccttca acatgcactg cgcgcccttt gagcagaacc   60
tctccgggggt gtgtcccggc gactccgccca aggcggcggg cgccaaggag cagaggggact  120
cggacttggc ggccgagagt aacttccgga tctaccctg gatgcgaagc tcaggaactg   180
accgcaaacg aggccgccag acctacaccc gctaccagac cctggagctg gagaaagaat   240
ttactacaa tcgtacctg acgcggcggc ggcgcatcga gatcgcgcac acgtctgcc    300
tcacggaaag acagatcaag atttggtttc agaaccggcg catgaagtgg aaaaaggaga   360
acaagaccgc gggtccgggg accaccggcc aagacagggc tgaagcagag gaggaagagg   420
aagagtgagg gatggagaaa gggcagagga agagacatga gaaagggaga ggaagagaag   480
cccagctctg ggaactgaat cagg                                     504
```

<210> 177

<211> 356

<212> DNA

<213> Homo sapiens

<400> 177

```
gaatcaggaa actcaaatcg aatagggag taaaaaaca aaacaaaaa caaaaaaaa   60
caaaaaaaa ccctatttaa atgaaaggag tttaaaaca tttttaagg agggagaaag   120
gagaaattti ggttttcaa cactgaaaaa atagtaccta taggaaagtc tgcaggttt   180
ggttttttg tacaatatga aaaggacatt atctacctg tctgtagctt tctggaattt   240
acctccctt tctatgttg ctattgtaag gtctttgtaa aatctgcag tttgtaagc   300
cctcttaat gctgtcttg tggactgtgg gtctggacta accctgtggt tgcctg     356
```

<210> 178

<211> 225

<212> DNA

<213> Homo sapiens

<400> 178

```
ccgagctgaa gaaccagcgg ctcaaggagg tttccagac caagatccag gatttccgca   60
aggcctgcta cagctcacc ggctaccaga tcgacatcac cagggagaac cagtaccggc   120
tgacctgct gtacgccgag caccaggcg actgctcatc tcaaggcca ccagccctc   180
gggtccaag atgcagctac tggagacaga gttctcacac accgt                225
```

<210> 179

<211> 380

<212> DNA

<213> Homo sapiens

<400> 179

```
tactgctgc agtaattcaa ctggaaatta aaaaaaaaaa actagactcc attgtgcctt   60
actaaatag ggaatgtcta acttaaatag ctttgagatt tcagctatgc tagaggctt   120
tattagaaag ccatattttt ttctgtaaaa gttactaata tatctgaac actattacag   180
tattgctatt tatattcatt cagatataag atttgatcat attatcatcc tataaagaaa   240
cggtatgact taattttaga aagaaaatta tattctgttt attatgacaa atgaaagaga   300
aaatatatat ttttaatgga aagttttag catttttcta ataggtactg ccatattttt   360
ctgtgtggag tattttata                                     380
```

<210> 180

<21> 440

<212> DNA

<213> Homo sapiens

<400> 180

```
tgcctgctgg ggattactcg atcaaacct tcttccctg gctactccc ttcctccgg 60
ggccttcctt ttaggtgctg gagctggagg ggtggggagc tagaggccac ctatgccagt 120
gctcaagggt actgggagtg tgggctgccc ttgtgcctg caccctccc tcttccctt 180
ccctctctct gggaccactg ggtacaagag atgggatgct cgcacagcgt ctccaattat 240
gaaactaatc ttaaccctgt gctgtcagat accctgggtt tctggagtca cagtcagtga 300
ggaggatgtg gtaagaggag gcagagggca ggggtgctgt ggacatgtgg gtggagaagg 360
gagggtggcc agcactagta aaggaggaat agtgcttgct ggccacaagg aaaaggagga 420
ggtgtctggg gtgagggagt 440
```

<210> 181

<21> 518

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (41)..(41)

<223> n is a, c, g, or t

<400> 181

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gcttttacgg tgatattgtg catgcaaacc aggagcattt nggtGttaa gaaaaataat 60
cttagaacag atggctgtga aaattacacc catgcacaga acaagccaca ggaataatag 120
ttcaggattt ggtttttctc ttttcttgt aaacctggag ggttgatata tctttccat 180
gcagtatta gaactagtt ttgtccaac agttaaactt gcaatgaaaa gaaaatgtgc 240
cattttttc actcagaatt atcatagct gtatattga aactgctaatacacacgtg 300
tgatgtatgt tggtttttta gtgcaatttc ttctgtagct attctttgac caaactgtgg 360
gtattgttaa tattaattta tatttgtctc attttgtatg tatgttagt gtgtttgtga 420
gtatgtgtgg ttataatct gacaaagtca tgaagctcag ttggctgta atttaattcc 480
ccttccctta ttttattta ttttgtact gtgctgat 518
```

<210> 182

<21> 538

<212> DNA

<213> Homo sapiens

<400> 182

```
caggtatgtt gccttatgg ttccccctt ctacatttct tagactacat ttagagaact 60
gtggccgtta tctggaagta accatttgca ctggagtct atgctctcgc accttccaa 120
agttaacaga tttgggggtt gtgtgtcac ccaagagatt gttgtttgcc atactttgtc 180
tgaaaaattc ctttgtgtt ctattgactt caatgatagt aagaaaagtg gttgttagtt 240
atagatgtct aggtacttca ggggcacttc attgagagt ttgtcttgc atactttgtc 300
tgaaaaattc ctttgtgtt ctattgactt caatgatagt aagaaaagtg gttgttagtt 360
atagatgtct aggtacttca ggggcacttc attgagagt ttgtcaatgt cttttgaata 420
ttcccaagcc catgagctct tgaaaatajt ttttatatat acagtaactt tatgtgtaa 480
tacataagcg gcgtaagtt aaaggatgtt ggtgttcac gtgttttatt cctgtatg 538
```

<210> 183

<211> 498

<212> DNA

<213> Homo sapiens

<400> 183

```
tcagtctctc aaagacccca tggatccatcc cctgaggggtg gtcagccaag gctcccgttc   60
cgtgggatgc cataaaagcc gccagtgagg acccacagtc acacagagcg ctcacctgc   120
atcctctccc ccacaagagc cccaaagatc ccacgggaga ggggagaggg acgcacagca   180
ctgcctgcc aagcagaatg caggccccgc cccctcggcc cctcaccacc tcttctaca   240
gcctaattta ttgattccc tattctagc catctccgtg gccaatgtga ctaccgtgcc   300
agcagcgggg gcgggccagc ctctgagtc cgtggggccc cggctccac cggtgccaaa   360
cccagccct gcgccgtca ccccgccagc ctactgcc agccgccacc ggggcacacg   420
ggcctctgt tgcagccag gagtgcggac accatgttc cagtcagt ccaaagaggg   480
gtcaccaggg ggagctgt                               498
```

<210> 184

<211> 421

<212> DNA

<213> Homo sapiens

<400> 184

```
cttactgtgt ttctagtcac ttctttctg tgaaagggtg cttagcttt ttttgacat   60
ttgtgttct ttatataaaa ataacagatt ggatagatgt gtacatttg ttttgaaat   120
tctctgaaaa tccattagg aaaccaggtg tgaaaagggc tcagtagctt ctctgagtg   180
cgttttagc tgactggaag tgcttaatct ggatcgtct tttttttt ttttttca   240
atatttaaa aggagaattt aaatactgtg cttactgtga aatatacag ttggtgagcc   300
gggcgtggtg ggtcacgcct gtaatccag cactttggga ggccaaggcg ggtggatcac   360
ccgaggtcag gagttaaga ccagcctggc caacgtggtg aaagcctgta tctattaaa   420
g                               421
```

<210> 185

<211> 498

<212> DNA

<213> Homo sapiens

<400> 185

```
gtcctttgca acatttcat aaaattgggc acagagttcg cattggcgca atatttatgg   60
gagtgggagg gatggggaaa ataaacttaa cctacaaaa gcaaactcta atgcatgcaa   120
gaatcattag gttggcaggt atatgataa gtgaaaaatc tggaaagtga atggtagaac   180
ataaaactg tattgttct gttcagtc aaaaatgtac tagccaatac gcttaagtgt   240
gtggcccatg aattgaacaa ttaaccttg aagtctatat ccgtgataat atgtcgatt   300
ttaactgagg ggaattaac tagtcagcc taaaatgctt ctttaatct gcattctgt   360
tcctcttcta gttgtgcat tactagtgt catgtttt tccccctt aatgaaaaca   420
ataaacatct atttgagaca attaaaatcc ttctgggggc actggaagca caatacgggt   480
accaatctg ctttcatt                               498
```

<210> 186

<211> 426

<212> DNA

<213> Homo sapiens

<400> 186

```
gatgcctcct gattatattt cacatttca ggaacaaaat gatttaaaag cattgctaga   60
aaatctcctt caaataatcc aatcaaaaa aagaaagaat gtagaaatta tgtggctggc   120
tgcaacgatt tgccgcaaac tgaatggtat tcgttcacc tgttgtaaaa gtgccaaga   180
```

caggacatcg atgtcagtga cacttgaaca atgctcaatc ttgagagatg agcaccagt 240
 acacaaggac ttctttatcc gagcgtgga ttgcatgaga agagaaggat gccgcataga 300
 gaatgtactg aagaatatca aatgcagaaa gtatgctttc aacatgctac agctgatggc 360
 ttccccaag tactacagac ctccagaggg gacttatgga aaagctgaca cctaagtta 420
 ccaaca 426

<210> 187

<211> 419

<212> DNA

<213> Homo sapiens

<400> 187

tgaaaggcag gacctggtca cccagcaag tgctatggac agtcccga aacggttgcc 60
 cacttcacag gtccatgggt ctgaccctg gactctgcca ggatcaactg cccagagtgc 120
 cagagttta gccaaagggt tacttacttc ctattttatc tccaaaagga tggaactgt 180
 gggagtcaaa gcctattttg ctgagtgtc cactggatc ctctgtagaa ttagcaggtc 240
 atgtgtcaa aatcatggac aaaggctggg tgcatgggt catgcctata atcccagcac 300
 ttgggagggc caagggtggg ggtcacctg agctcaggag tttaagacca gcctgggcaa 360
 catggggaaa ctccatctc acaaatata caaatatta gccagccatc gtggtgcgt 419

<210> 188

<211> 481

<212> DNA

<213> Homo sapiens

<400> 188

gccgtcacc gaagtcagaa acgtggcatc tcacggaag aggaggaagg agaggtagac 60
 agtgaagtag agctgacatc aagccagagg tggcctcaga gcctgaacat gcgccagtca 120
 ctatctacct tcagctcaga gaatccatca gatggggagg aaggcacagc tagtgaacct 180
 tccccagtg gcacacctga agttggcagc accaactg atgagcggcc agatgagcgg 240
 tctgatgaca tgtgtccca gggctcagaa atcccactg acccacctcc tcagaggtc 300
 atccctggcc ctgaaccag ctccctgccc attccacacc aggaactct cagagagcgg 360
 ggccctccca attctgagga ctgactgt gacagcactg aattggacaa ctccaacagc 420
 gttgatgcct tgcggcccc agcttccctc cctccatgaa agccactct attcctgta 480
 c 481

<210> 189

<211> 424

<212> DNA

<213> Homo sapiens

<400> 189

acttctacc agcagtcgtg gggaacggag gaggacatgg ggaggttggt gggcctcagg 60
 ctccgggcac caggggcca cctcaggctc ctaagagac atttccgcc cactcctggg 120
 aactcctgct tctccaatg actgagcagc atccaccca cccatcttt gctgccagct 180
 ctgaggaccg tgcctcgtc agctgggatg tgaagtctct ggggtggaagt gtgtgccaag 240
 agtactccc acagcagccc caggagaagg gctttgtga ccagaaagct tcattcacag 300
 ccttgacggt gctcctgcaa aaggaggtga aatccctgcc tcaggccaag ggaccaggtt 360
 tgcaggagcc cccctagtgg tatggggctg agccctcctg agggccggtt ctaaggctca 420
 gact 424

<210> 190

<211> 515

<212> DNA

<213> Homo sapiens

<400> 190

```
aatgcagctg acgatccgtt ggtgcatgaa agtcttctaa ccattccaaa atctctttca   60
gagaaacgag agaacgtcat gtttgtgctg cctctgcatg ggggccactt gggtctcttt   120
gagggtctctg tgctgttccc cgagcccctg acatggatgg ataagctggg ggtggagtac   180
gccaacgcca ttgccaatg ggagcgtaac aagttgcagt gctctgacac ggagcaggtg   240
gaggccgacc tggagtgagg cctccggact ctggcacgct ccagcagccc tcctctggaa   300
gctgcgtccc ctaccccctt gtttcaggtc tcccatctcc ctcaagtacc tggatctgac   360
ctcacacat cagcaggggg caccacat gcacacctgt ctggagtag gcagctcttc   420
ctgggagctc caggctattt ttgtgcttag ttactgggtt tctccattgc attgttaggc   480
atggtgacaa gtgacagagt tcttccctc tgccc                    515
```

<210> 191

<211> 434

<212> DNA

<213> Homo sapiens

<400> 191

```
caggtgtatc tgcacagtgg tcgccccaca gcagaccatg tgttcacggg atgcccgcac   60
aaaacagctg aggcagctac tggagaaggt gcagaacatg tctcaatcca tagaggtctt   120
ggacaggcgg accagagag acttgacgta cgtggagaag atggagaacc aaatgaaagg   180
actggagtcc aagttaaac aggtggagga gagtcataag caacacctgg ccaggcagtt   240
taagggtcaa cttaaagag tttttcaat gctgcagtga ctgaagaagc agtcactcc   300
catgtaacca tgaaagagag ccagagagct tttgcacca tgcatttta ctattattt   360
ccaatactta gcaccattc actaaggaac ctgaataca accaggatcc tccttgcac   420
gcgactgtag ctgc                    434
```

<210> 192

<211> 403

<212> DNA

<213> Homo sapiens

<400> 192

```
aaaatgttgc gttctcagtc caaaaagaag tggaaaagaa tctgaagtca tgcttgaca   60
atgttaatgt tgtgtccgta gacactgcca gaacactatt caaccaagtg atggaaaagg   120
agtttgaaga cggGatcatt aactggggaa gaattgtaac catatttga ttgaaggta   180
ttctcatcaa gaaacttcta cgacagcaaa ttgccccgga tgtggatacc tataaggaga   240
tttcatattt tgttcgggag ttcataatga ataacacagg agaatggata aggcaaaacg   300
gaggctggga aaatggcttt gtaaagaagt ttgaacctaa atctggctgg atgacttttc   360
tagaagttac aggaaagatc tgtgaaatgc tatctctcct gaa                    403
```

<210> 193

<211> 355

<212> DNA

<213> Homo sapiens

<400> 193

```
ggctgggagt tgattgagcc aacactggat caattagatc aaaagatgag agaagctgaa   60
acagaaccgc atgagggaaa gaggaaagtg gaatctctgt ggcccatctt caggatccac   120
caccagaaaa cccgctacat cttcgacctc ttttacaagc ggaaagccta cagcagagaa   180
ctcttagata tatgttataa agaaggctta gcagacaaaa acctgttggc aaaatggaaa   240
aagcaaggta taggaaactt gtgctgcctg cgggtgcattc agacacggga caccaacttc   300
```

gggacgaact gcattctgccg cgtgccccaa agcaagctgg aagtgggccg catca 355

<210> 194

<211> 527

<212> DNA

<213> Homo sapiens

<400> 194

gggtgtgtct ggccaggaag gcacaaggta gctgtgggcc aagacaccag ccctgtccta 60
gcccttcagt aagacctgc caggagagga gaaggatgcc tgggtgccag gcaagacaag 120
cccctcagca ggagagaggc ccagaggctc cagctggcca ccgtgcccc caagatggcc 180
cctgtgtgtt tccctttacc ttggttctc ggcccagtc ctgcctctcc acctgcaccc 240
tgcttcttg cccagtccta ggttgagtc cctctgcata gctgactact catgcattgc 300
tcaaagctgg cttttacat taagtcaaca ccaaacgtgg ttgccacatt tcatcagaca 360
gacacctccc tctggagatg cagttgagtg acaacctgt tacattgtag cctagaccaa 420
ttctgtgtgg atatttaagt gaacatgttt acaattttg tatatatcac tctctcctc 480
tcctgaaaga ccagagattg tgtatttca gtgtcccatg ttccgac 527

<210> 195

<211> 531

<212> DNA

<213> Homo sapiens

<400> 195

aacagaaagt ctacgccag gatggggctt ctcaacagg cccctgccct cctgaagcct 60
cagtccttca ccttgccagg tgccgtttct ctccgtgaa ggccactgcc caggtcccca 120
gtgcgcccc tagtgccat agcctgtta aagttcccca gtgcctcct gtgatagacc 180
ttcttctccc accccttct gccctgggt ccccgcccat ccagcggggc tgccagagaa 240
ccccagacct gcccttacag tagttagcg cccctcctt cttcggctg gtgtagaata 300
gccagtagtg tagtgcggtg tgctttacg tgatggcggg tgggcagcgg gcggcggcgt 360
ccgcgcagcc gtctgtcct gatctgccg cggcgcccg tgtgtgttt tgtgtgtgt 420
ccagcgctaa ggagaccccc tccccgtac tgacttctc tataagcgt tctcttcgca 480
tagtcacgta gctccaccc caccctctc ctgtgtctca cgcaagttt a 531

<210> 196

<211> 441

<212> DNA

<213> Homo sapiens

<400> 196

cttgccctgc taaggtcttg gaacttgct gcctttccat ccatggccag cagcacctgc 60
cctacctgcc cacttgttc ttagcctgga cctctgacag cagcatctct accttctccc 120
cagctccag gaccacaggc tcaggcaggg ctccatggg cccagggga aactgggga 180
cttgccctct ctctagggtg catgtgtct ggagaggcag ccaggaagt ctcattggg 240
gagcaggcag ccagcatctg ggccttgcc ttgagcaca agacctggc ttcatcttc 300
tctcaggtga aaggaaatta aggcaacaaa agaagcccgg ctctgtgtca cctaggaagc 360
ctcagattcc ttccatgga gggaggaggt gggttcagg tggccaagt cctctaact 420
ggctcacact cgacatgaaa a 441

<210> 197

<211> 552

<212> DNA

<213> Homo sapiens

<400> 197

gcagtccta ttagctaaaa gccattaag acaagaaaca caggaagccc ctggtcccag 60
agaagaagca aagggccagg tagaggccag aaggagctct ttgatcctg tccaggagcc 120
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cccacagaag tctcagtgcc agaacataag cctgaagtg ggcaggggaa atgtacgctg 480
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<210> 198

<211> 467

<212> DNA

<213> Homo sapiens

<400> 198

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atgagcctgg caagaatgcg tttaaacttg gttttaaaa aactgctgac tgtttctct 180
tgagagggtg gaatatccaa tttcgtctgt gtcagcatag aagtaactta cttaggtgtg 240
ggggaagcac cataactttg tttagccaa aaccaagtca agtgaaaaag gaggaagaga 300
aaaaatattt tctgccagg catggaggcc cagcacttc gggagggtcga ggcaggagga 360
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<210> 199

<211> 562

<212> DNA

<213> Homo sapiens

<400> 199

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cattttttt agataatcta agctagaaaa atgacattga attctggacc tggctggaag 180
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gttatgccac cttcttgccc ttaatggcat taaatgaaat ttataggaag aaggttttg 480
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<213> Homo sapiens

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<400> 200

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ctttgccttc cccctcagc aaggggctgc ttctggggct ccctgcctgg atccagctct   180
gggagccctg ccgaggtgtg gctgtgaggt cagggtttta gagagcagtg gcagaggtag   240
ccccctaaat gggcaagcaa ggagcccccc aaanacacta ccactcccca tccccgtctg   300
accaagggct gacttctcca ggacctagtc ggggggtggc tgccaggggg caaggagaaa   360
gcaccgacaa tctttgatta ctgaaagtat ttaaattgtt gccaaaaaca acagccaaaa   420
caaccaaact at                                     432
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<210> 201

<211> 353

<212> DNA

<213> Homo sapiens

<400> 201

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gtccctcta ttatgcaaa gccgacctat gctacagccc cccaacccc gacctggggt   120
agggaggaag aggggtgccgg ggaagggagt ccgccctgtc caggcactag aggctccctt  180
gacgtttggc agatgaaaaa caactaagcc ttttgaggt gtagagattc tcaggtccag   240
gcgttaaaaa ataattgtca aaagaataat acaaaaatag taaaggtctt gaagaatgcc   300
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<210> 202

<211> 546

<212> DNA

<213> Homo sapiens

<400> 202

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gaagtgggtg tgcatggacg actgaacaca atcaactgtg aggaaggaga taaactgaaa   180
ctcaccagct ttgaattggc accgaaaagt gggaataccg gggagttgag atctgtaatt   240
catagtcaca tcaaggtcat caagaccagg aaaaacaaga aagacatact caatcctgat   300
tcaagtatgg aaacttcacc agacttttc ttctaaaatc tggatgtcat tgacgataat   360
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gtttatggag ataaggtcta agtccctaaa aaaatgtaca tatacctggt tgaaatacaa 420
cactatacat acacaccacc atataacta gctgttaatc ctatggaatg ggggtattgg 480
gagtgccttt ttaattttc atagttttt ttaataaaa tggcataatt tgcactaca 540
acttct 546

<210> 203

<21 1> 246

<212> DNA

<213> Homo sapiens

<400> 203

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ggagccgccc acctgccctg ctgcgtgccc gcgcgcctgt cggccatctc cgtgctcttc 180
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<210> 204

<21 1> 470

<212> DNA

<213> Homo sapiens

<400> 204

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ggccaagcac agtgcgatg gcgaatcctt gtccagtga ctgcagcagc tggggtgccc 180
caaagagcac gcggccagcc tgtgccgctg ttatgaggag aagcaaagcc ccttcagaa 240
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<210> 205

<21 1> 469

<212> DNA

<213> Homo sapiens

<400> 205

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gcctcctgaa agcatcatgt accggaagt cactacagag agtgatgtat ggagcttcgg 180
ggtgatcctc tgggagatct tcacatatgg aaagcagcca tggttccaac tctcaaacac 240
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agaggtgtac gatgtcatgc tggggtgctg gcagagggaa ccacagcagc ggtgaacat 360
caaggagatc taaaaaatcc tccatgcttt ggggaaggcc accccaatct acctggacat 420
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<210> 206

<211> 512

<212> DNA

<213> Homo sapiens

<400> 206

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 tggatgatcag cagctcggaa gactcagatg ccgaaaactc gtctcccga gagctggatg 240
 acagcagcag tgagtccagt gacctccagc tggaaggccc cagcacctc agggctctgg 300
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 ttgacaatga aagtgggttc tctggggct accccaccc ctttctaatt tagtctctga 420
 gtcccaaaaa gaagtgcagg cagagcatct gccaggcca ggagagctct gagctctggc 480
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<210> 207

<211> 488

<212> DNA

<213> Homo sapiens

<400> 207

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 cacgtgatg acaagttcct attgtgccc ttccactccg gatgggaccc tgaccacgga 180
 ggctctttt acttcagga tgctgataac ttctgcccc cccagctgga gtgggccatg 240
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 ggggacctg tgctgctgc cctctctac caagtggctg agtacacctt ccgccagttt 360
 cgcatcccg agtacggga atggttggc tacctgagcc gagagggcaa ggtggccctc 420
 tccatcaagg gaggtcctt caaaggctgc ttccactgc cgcggtgcct agccatgtgc 480
 gaggagat 488

<210> 208

<211> 459

<212> DNA

<213> Homo sapiens

<400> 208

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 gcttgtgagc ttgctgtgc gtcacaagag aaagcagctt cctgaagaaa agcagccact 180
 cctcatggag aaagaggatt accacagctt gtatcagagc cattataaa aggcttaggc 240
 aatagagtag ggccaaaaag cctgacctca ctctaactca aagtaatgc caggttccca 300
 gagaatatct gctggtattt ttctgtaaag accatttga aaattgtaac ctaatacaaa 360
 gtgtagcctt ctccaactc aggtagaaca cacctgtctt tgtcttgctg tttcactca 420
 gcccttttaa catttcccc taagcccata tgtctaagg 459

<210> 209

<211> 533

<212> DNA

<213> Homo sapiens

<400> 209

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 ttcttggtga cgccaggggc tggtaggtca ttcaaagctg tggccagctc acgcctgctt 120
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ctgtcactca gacacctgtg gcatgtggag gagactgcc tgtcctgagc ctggaaaatg 480
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<210> 210

<211> 438

<212> DNA

<213> Homo sapiens

<400> 210

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tctgaagggt ctgatgccag cacaattgaa attcactg caagtgaatc ctgcaacaaa 120
aatgagggtg acctgtctct cccaacccat ggagacctat gaaggggatg tgctgggggt 180
ccagacccca tattctcag actcaacaat tctgttctt tagaactgtg ttctcacctt 240
cccaactg cactgccgaa gtgtagcggc ccccaaacct tgctctcctc accagctaga 300
gcttcttccc gaagggcctt taggatagga gaaagggttc atgcacacac gtgtgagaat 360
ggaagagccc cctccagacc actctacagc tgctctagcc ttagttgcca ctagggaagt 420
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<210> 211

<211> 135

<212> DNA

<213> Homo sapiens

<400> 211

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cttcaccggg aagaagatgg aaatcataga tgacgatgta cccagcttcc acgcccattg 120
ctaccaggag aaggt 135

<210> 212

<211> 440

<212> DNA

<213> Homo sapiens

<400> 212

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ggaggcgcc ggcgcccgc gcgctccca cctactggcc ttggctgtgc gcggccgcgc 120
aggtggcggc gctggcggcc tggctgtcgc gcaggcgaa ctgtaggaa cgcggggctt 180
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ggttggcact tcgagaagga agtggagagt aaagacagcg cctggagcga tcgtagaaac 360
acagaatggg actggggaag ccctttggaa atccagctgc agaaacagac accccaatgc 420
tattacata cagctctata 440

<210> 213

<211> 489

<212> DNA

<213> Homo sapiens

<400> 213

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gaaactgact ttgtcttt ggagaaaaa aactgtactg ttgtcaaga gggctgtgat 180
taaaatctt aagcattgt tctgccaag gtagtttct tgcattttgc tctccattca 240
gcatgtgtg ggggtggat gttataaac aagactaagt ctgacttcat aagggtttc 300

taaaaccatt tctgtccaag agaaaatgac ttttgcctt gatattaaaa attcaatgag 360
 taaaacaaaa gctagtcaaa tgtgttagca gcatgcagaa caaaaacttt aaactttctc 420
 tctcactata cagtatatg tcaatgtgaa agtgtggaat ggaagaaatg tcgacacctgt 480
 tgtaactga 489

<210> 214

<211> 514

<212> DNA

<213> Homo sapiens

<400> 214

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 aaaaaatgag cacagagttc acgtgcaaat ggagccggta tgacacactt tcttacaaca 120
 acagccactg tgttggctgg agagggatgg ggtggggcca acggggacac aaggaggcag 180
 aggagctaac ccctctactc cactttcaa actacattt aaagggaatg tgtatgtgaa 240
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 tgtttttaa gccaaaacaa aaaacaacca agcactcttc catatataaa tctggctgta 360
 ttcatgtagca atacaagaga tatgtagaaa gactctttgg ttacattcc gatattaaaa 420
 tagtgacatg aactggcaaa gtggttttaa aagctttcac gtgggataaa tgattttctt 480
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<210> 215

<211> 543

<212> DNA

<213> Homo sapiens

<400> 215

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 tgggacagcc aggggggtgtg cccacggctg acccaggggt gtgcacacgg ctgagctggg 180
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 caatgaaatg acatgccttt ttacgaggaa gcaaagtgg tttctgttt ttgtttctt 420
 tgtgtttta gtttataaaa catgtgcatt ttacagtta gtatcaata ttataatct 480
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 cac 543

<210> 216

<211> 518

<212> DNA

<213> Homo sapiens

<400> 216

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 ttctctggga tctccaatag gtctctctac aaccacccct cccaataaac cccatcctt 180
 caacctgcac cccgccctc acttgctggc tagtatgcag ctgcagaaac ttaatagcca 240
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 ggaactgggg ttggaccgag ccaatgagct tccggagctg tggctggggc agaatgagtt 480
 tgacttcact gcggacttct catctagctg ctaatgcc 518

<210> 217

<211> 480

<212> DNA

<213> Homo sapiens

<400> 217

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tttccgtgt cgtccaggc cctccctgac tccctgtggg ggtggccatc cctgggcccc   420
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<210> 218

<211> 472

<212> DNA

<213> Homo sapiens

<400> 218

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cacagctatc acatggatc ctttagtc ttacgctct aaacctactc tgtattcaat   120
ttataatgcc aattttcgga gagggatgaa agagactttt tgcattgctt ctatgaaatg   180
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atttgacaga gaagccaagg aaaaaagct tgcctggccc attactcaa atccacaaa   360
tactttgtc taagtctca tttttcaat tgttatgcac cagagattaa aaagctttaa   420
ctataaaaac agaagctatt tacatattt ttttactca actttccaag gg           472
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<210> 219

<211> 309

<212> DNA

<213> Homo sapiens

<400> 219

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gtccgcccag aagccataga cgagacgtag gtagccgtag ttggacggac gggcagggcc   60
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atgccccctg ccccgggcgg cggcctcggg tgcgaggggg ctccctcac ctcggtgcct   180
cagttcccc agctgtaaga cagggacggg gcggcccagt ggctgagagg agccggctgt   240
ggagccccgc ccgccccca cctctaggt ggccccgcgc cgaggaggat cgttttctaa   300
gtcaatac                                     309
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<210> 220

<211> 560

<212> DNA

<213> Homo sapiens

<400> 220

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tggaattgaa gccagatacc ttaataaaat tatatcttgg ttataaaaat aagaaattaa   180
gggttaacat caatgtgcca atgaaaaccg aacagaagca ggaacaagaa accacacaca   240
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aaaacatcga ggaagaccgc aaactactga ttcaggcggc catcgtgaga atcatgaaga 300
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 ggttcaaacc tcgagtcctt gtgatcaaga aatgcattga cattctaatt gagaaagaat 420
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 aggggtctgac tgtgtgaccc gcagcaaata gttcatgttg gaaagaatga aaacaacttc 540
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<210> 221

<211> 280

<212> DNA

<213> Homo sapiens

<400> 221

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 tgccatcaat gattttgagg gtggtatgat gctggtcagc catgacttca gactcattca 180
 gcagggttga caggaaattt gggctctgta gaagcagaca atcaccaagt ggcctggaga 240
 catcctggct tacaaggagc acctcaagtc caagctggtg 280

<210> 222

<211> 524

<212> DNA

<213> Homo sapiens

<400> 222

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 agattcagcg accatcctcc gagaaccac cacgaaatcc gtcccagtc ataattctcc 180
 tgagagaagt ccgactgaca gcccagaga gggcctgagg gtcaagcgag gccgacttgt 240
 cccagcccc aaagctggac tggagtccaa gggcagtgag aactgtaagg tccagtgaag 300
 gcactttgtg tgtcagtacc cctgggaggt gccagtcatt gaatagataa ggctgtgcct 360
 acaggacttc tcttagtca gggcatgctt tattagttag gagaaaacaa ttccttagaa 420
 gtcttaaata tattgtactc ttatagatc ccatgtgtag gtattgaaaa agtttgaag 480
 cactgatcac ctgtagcat tgccattcct ctactgcaat gtaa 524

<210> 223

<211> 550

<212> DNA

<213> Homo sapiens

<400> 223

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 acgtgtcgt gagccaggaa ggcaggtcgc tgcctgtgcc ccagctgggt cccgagaccg 180
 aggacgagaa gaagcgctt gaggaaggca aaggcggtta cctgcagatg aaggcgacga 240
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 gccatggcaa cgggcccagt gtccagtcac ttagaagttc cccccttggc caaaaacca 360
 attcacattg agagctgggt ttgtctgaag tttcgtatc acagtgttaa cctgtactct 420
 ctctgcaaa cctacacacc aaagctttat ttatcatt ccagtatcaa tgctacacag 480
 tgtgtcccg agcgccggga ggcgttgggc agaaaccctc gggaatgctt ccgagcacgc 540
 tgtaggtat 550

<210> 224

<211> 233

<212> DNA

<213> Homo sapiens

<400> 224

gatgaatgtt ttgcacttta ttggaagac aacaagtttt accgggcaga agttgaagcc 60
ctccattctt cgggtatgac agcagttgtt aaattcattg actacggaaa ctatgaagag 120
gtgctactga gcaatatcaa gccattcaa acagaggcat gggaggaaga aggcacctac 180
gatcaaacctc tggagttccg taggggaggt gatggccagc caagacgatc cac 233

<210> 225

<211> 419

<212> DNA

<213> Homo sapiens

<400> 225

ctgctgccac ataaggtctt tgaaggaaat cgcccaacca actctattgt gttcaccaag 60
ctcacacatc tcatgcttgg agccttggc gccatgtatg agcacaagat ctctgttcag 120
ggcatcatct gggacatcaa cagctttgac cagtggggag tggagctggg aaagcagctg 180
gctaagaaaa tagagcctga gcttgatggc agtgctcaag tgaccttca cgacgttct 240
accaatgggc tcatcaactt catcaagcag cagcgcgagg ccagagtcca ataaactcgt 300
gctcatctgc agcctcctct gtgactcccc ttctcttct cgtccctct ccccgagacc 360
ggcactgcat gttcctggac accaccaga gcacctctg gttgtgggct tggaccacg 419

<210> 226

<211> 265

<212> DNA

<213> Homo sapiens

<400> 226

atggcaaaaa tctccagccc tacagagact gagcgggtgca ttgagtcctt gattgctgtt 60
ttccagaagt atgctggaaa ggatgggtac aaccgcaatc tctccaagac ggagttccta 120
agcttcatga atacagact ggctgccttt acaaagaacc agaaggacce cgggtctcct 180
gaccacatga agaaactgga tgtcagcagt gatgggcagt tagatttccc aaaatttctt 240
aatctgattg gtggcctagc tgtgg 265

<210> 227

<211> 467

<212> DNA

<213> Homo sapiens

<400> 227

gggaccggga ttcatctgg tgtgatagac acctctctac tatataacga gtacattgtc 60
tatgatattg ctcaggtaaa tctgaagtat ctgctgaaac tgaaattcaa tttaagacc 120
tccctgtggt aattgggaga ggtagccgag tcacaccggg tggctgtggt atgaattcac 180
ccgaagcgtc tctgcacaa ctcacctggc cgctaagttg ctgatgggta gtacctgtac 240
taaaccacct cagaaaggat ttacagaaa cgtgttaaag gttttctta acttctcaag 300
tccctgtttt tgtgttgtgt ctgtggggag ggggtgtttt ggggtgtttt ttgtttttc 360
ttgccaggta gataaaactg acatagagaa aaggctggag agagattctg ttgcatagac 420
tagtctatg gaaaaacca aagcttcgtt agaattgtc cctact 467

<210> 228

<211> 277

<212> DNA

<213> Homo sapiens

<400> 228

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aagaggggcc tgatgagact cactcaggt gcacacatca ccaggtgcat ctgcaggcac   60
cgggctggct gcttcagcc aggagaaggt cagcgagaag gagtgtatga gtgtgagtg   120
gtgtgcatgg aagtggggc actgggcgtc tgactccctc cccaccaag agaggaagga   180
cccctacca cccctactgg cgagacagtt tactttgccg acttgccatg ttttgccaa   240
aaccaagatt ttgaaggaaa tgagtggcca gcgccag                               277
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<210> 229

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc_eature

<222> (198)..(198)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (201)..(201)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (429)..(429)

<223> n is a, c, g, or t

<220>

<221> miscfeature

<222> (439)..(439)

<223> n is a, c, g, or t

<400> 229

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gactggcct ggtacaagat cactgactct gaggacaagg ccctcatgaa cggctccgag   60
agcaggttct tcgtgagttc ctgcagggc cggtcagagc tacacattga gaacctgaac   120
atggaggccg acccggcca gtaccgggtgc aacggcacca gctccaaggg ctccgaccag   180
gccatcatca cgtccgncg ntgcgcagcc acctggccgc cctctggccc ttctgggca   240
tcgtggctga ggtgctgtg ctgtcacca tcatttcat ctacgagaag cgccggaagc   300
ccgaggacgt cctggatgat gacgacgccg gctctgcacc cctgaagagc agcgggcagc   360
accagaatga caaaggcaag aacgtccgcc agaggaactc ttctgaggc aggtggcccg   420
aggacgctnc cctgctcng cgtctgcgcc gccgcccggag tccactccca gtgcttcaa   480
gattccaagt tctcacctct taaaga                               506
```

<210> 230

<211> 536

<212> DNA

<213> Homo sapiens

<400> 230

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cctgtgcct ggcatgtagc caagaggcgg ataagtgcc caccttagaa cagtatgcca   60
tgagagcgtt tgccgacgca ctggagggtca tccccatggc cctcttgaa aacagtggca   120
tgaatcccat ccagactatg accgaagtcc gagccagaca ggtgaaggag atgaaccctg   180
ctcttggcat cgactgtttg cacaagggga caaatgatat gaagcaacag catgtcatag   240
aaaccttgat tggcaaaaag caacagatat ctctgcaac acaaatggtt agaattgatt   300
```

tgaagattga tgacattcgt aagcctggag aatctgaaga atgaagacat tgagaaaact 360
atgtagcaag atccactct gtgattaagt aaatggatgt ctcgtgatgc gtctacagtt 420
atttattgtt acatccttt ccagacactg tagatgctat aataaaaata gctgtttggt 480
aaccatagtt tcacttggtc aaagccgtgt aatcgtgggg gtactatctc aactgc 536

<210> 231

<211> 389

<212> DNA

<213> Homo sapiens

<400> 231

ccatcgccac agaagcggta ccaggacacc ccgggcgtgg agcacattcc cgtggtgcag 60
attgacctct ccgtcccctt gaaggttcca gggctgccta tgcagatca gtatgtgaag 120
ctggaggagg agcggcggca ccggcagaag ctggagaagg acaagaggag gaaaaagagg 180
aaggagaagg agaagaaggg caagcgccgc cacagctcgc tgcccacgga gagcgacgag 240
gacatgccc ctgcccagca ggtggacatc gtcacagagg agatgcctga gaatgctctg 300
cccagcgacg aggatgacaa agaccccaac gaccctaca gggctctgga tattgacctg 360
gataagccct tagccgacag cgagaaact 389

<210> 232

<211> 525

<212> DNA

<213> Homo sapiens

<400> 232

ctttcacca ctgtggagac cctggagaag gaaaaccctt ggtactgcc ttctgcaag 60
cagcaccagc tggcaaccaa gaagctggac ctgtggatgc tgccggagat tctcatc 120
cacctgaaac gcttttcta caccaagttc tcccagaga agctggacac cctcgtggag 180
tttctatcc gggacctgga cttctctgag ttgtcatcc agccacagaa tgagtcgaat 240
ccggagctgt acaaatatga cctcatcgcg gtttcaacc attatggggg catgcgtgat 300
ggacactaca caacatttgc ctgcaacaag gacagcggcc agtggcacta ctttgatgac 360
aacagcgtct cccctgtcaa tgagaatcag atcgagtcca aggcagccta tgcctcttc 420
taccaacgcc aggacgtggc gcgacgcctg ctgtccccgg ccggctcatc tggcgcccca 480
gcctcccctg cctgcagctc cccaccagc tctgagtcca tggat 525

<210> 233

<211> 501

<212> DNA

<213> Homo sapiens

<400> 233

gaagggggcc tttgagcta gaagctttct attctgatcc ccaaggagtt ccatatccag 60
aagcaaaaat aggccgcttt gtagttcaga atgtttctgc acagaaagat ggagaaaaat 120
ctagagtaaa agtcaaagtg cgagtcaaca cccatggcat ttccaccatc tctacggcat 180
ctatggtgga gaaagtccta actgaggaga atgaaatgct ttctgaagct gacatggagt 240
gtctgaatca gagaccacca gaaaaccag aactgataa aaatgtccag caagacaaca 300
gtgaagctgg aacacagccc caggtacaaa ctgatgtca acaaacctca cagtctccc 360
cttcacctga acttacctca gaagaaaaca aaatcccaga tgctgacaaa gcaaatgaaa 420
aaaaagttga ccagcctcca gaagctaaaa agcccaaat aaagtggtg aatgttgagc 480
tgcctattga agccaacttg g 501

<210> 234

<211> 432

<212> DNA

<213> Homo sapiens

<400> 234

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tgctgggctg ggtcgcgtag cccaggggtg aggcagaacg atgctgctgt ggtagccctt   60
tgcctttcat gcccatgctt gattcttgca cctcagcagc tgaaggtctc agagaccagt   120
aatcagaagg catccgactg cattaagtgt gcagcgctga aaagacattt acaactaggc   180
cagggttagg cactgtggg aggggtggaca ggcaatggtt cagtggcctg gctgttgga   240
ggaactcaa gtgccaggc ctctgggca gcttagggcc ctgcctctgt tcatgatgc   300
atgggtcatt tgtctgggt gtcctatccc atatggagaa gaaaggggct ctaagttctg   360
gctcttctt ctttggggt ctctgtacct gaggaacca ggcctgggt gactttgcag   420
atctgctcac cc                                     432
```

<210> 235

<211> 454

<212> DNA

<213> Homo sapiens

<400> 235

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tgtagaaggt gacgctctgg gggcaggact cctccaaaat tatgtggacc gtacggagtc   60
gagaagcaca gagcctgagt tgatacaagt gaagagttag ctgccctgg atccgctgcc   120
agtccctact gaggaaggaa acccctcct caaacactat cgggggccc cagggggatgc   180
cacggtgcc tctgagaagg aatcagtcatt gtaaaccctg ggagggacct tcctgcct   240
gctgggggtg ctcttggac actggattat gaggaatgga taaatggatg agctagggt   300
ctgggggtct gcctgcacac tctggggagc caggggcccc agcaccctcc aggacaggag   360
atctgggatg cctggctgct ggagtacatg tttcacaag ggttactcct caaaaccccc   420
agttctact catgtccca actcaaggct agaa                                     454
```

<210> 236

<211> 475

<212> DNA

<213> Homo sapiens

<400> 236

```
gcaagaccga gagcacctgt ggaagttgat cgaaggcggg gccacatct acgtctgtgg   60
ggatgcacgg aacatggcca gggatgtgca gaacaccttc tacgacatcg tggctgagct   120
cggggccatg gagcagcgc aggcgggtga ctacatcaag aaactgatga ccaagggccg   180
ctactcctg gacgtgtgga gctaggggcc tgctgcccc accacccca cagactccgg   240
cctgtaatca gctctctgg ctccctccc tagtctctg ggtgtgttg gcttggcctt   300
ggcatgggcg caggcccagt gacaaagact cctctgggcc tggggtgcat cctcctcagc   360
ccccaggcca ggtgaggtcc accggccctt ggagcacag ccagggcct gcatgggggc   420
accgggtcc atgcctctgg agcctctggc cctcgggtgc tgcacagaag ggctc       475
```

<210> 237

<211> 531

<212> DNA

<213> Homo sapiens

<400> 237

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ggtcaggctt ggctgcaaaa cactttattg attaggagc tgggtcata gatgaagatt   60
atagaggaaa tgttgggtgt gtactgttta attttggcaa agaaaagtt gaagtcaaaa   120
aagggtgatc aattgcacag ctcatctgcg aacggatttt ttatccagaa atagaagaag   180
ttcaagcctt ggtgacacc gaaaggggtt caggagggtt tgggtccact gaaagaatt   240
aaaatttatg ccaagaacag aaaacaagaa gtcatacctt tttttaaaaa aaaaaaaaaa   300
```


aagtttttgc ttcaagtgtt ttggtgtttt gcacttctgt aaacttacta gctttacctt 360
ctaaaagtac tgcatttttt accttttttt atgatcaagg aaaagatcat taaaaaaaaa 420
cacaaagaag tttttctttg tgtttggatc aaaaagaaac ttgttttttc cgcaattgaa 480
ggttgtatgt aaatctgctt tgtggtgacc tgatgtaaac agtgtcttct t 531

<210> 238

<211> 543

<212> DNA

<213> Homo sapiens

<400> 238

ggatcaggag aacgtacacc cggatgtgat gctggtacaa cccagagtag aatttattct 60
gtctttcatt gaccacattg ctggagatga ggatcacaca gatggagtag tagcttgtgc 120
tgctggacta ataggggact tatgtacagc atttgggaag gatgtactga aattagtaga 180
agctaggcca atgatccatg aattgttaac tgaagggcgg agatcgaaga ctaacaaagc 240
aaaaaccctt gctacatggg caacaaaaga actgaggaaa ctgaagaacc aagcttgatc 300
tgttaccatt gggatgataa cctgaggacc cccactggaa atctcccatc ttttgaaaaa 360
cctggaaagt aggagtgtgc acggatgctg aatgtttggg aatgagagga tgagtgagtg 420
aggcttgaac acacaccaca ttgaaaatcc tgccacagca gcagccgcag ccgccaacag 480
cagcgtgtt agtgagctaa gtaagcactg acttcgtaga aaaccataac atcggccatc 540
ttg 543

<210> 239

<211> 460

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (173)..(174)

<223> n is a, c, g, or t

<400> 239

gaggaaagac gctctttagg ttttgtttt tttttttt tttggtttt tttttgtt 60
tttttttac tctagggaaa acactgacga atggtcagag ctctatcct gatcttttca 120
tcaaggcgcc tttcctaata atatggttca actgtgaatg tagaagtggg gggnaggggg 180
gagaaaaaga aaactctggc gtttagaggat ataaaaaat ataagtacaa ttgttacaaa 240
taacgcagac ttcaaaaaca aaaaaatcac aacccaaaca aaccaaatt taaatgatca 300
gaattggcag cacaaagaaa acgccctctc ctgacttga ttgtggcagt ctgaacgcc 360
ccagaaaatt gtccaaaga gtttagaaaa ataatatata aataaaagta aacacataca 420
cacaaaacag caaacttcag gtaactattt tggattgcaa 460

<210> 240

<211> 498

<212> DNA

<213> Homo sapiens

<400> 240

gttgaactca tgtttcagtt cgcgaaatt gactccttac gaaagtcact tcattctaac 60
tagatgcgcc cacttccggt cattatttcg ttgcatgat gtattgttc ttacgtttt 120
gtttttattg agcacggagt agaattccag ggctgccttg acttctccc tgcattgtcc 180
ctccagtga ctttcttcc ctttcatatg aggatctgcc gttcatgttg ctttctctt 240
tgtctcttg gacttgaggg cattgtgaaa agctttgctg tgatttaaaa atgccagcaa 300

ttttaatcta gcagtgtga agctgggaat ttttggcgc aatccatgta gcagtgacc 360
aggcttggga gccagaaaca agtgtgacct gggattttat ttaacacaac tgttgccaaa 420
gagttggcct tgtttatttg gtttggcgg ggagaggagt ggtatttgat gctttctgtg 480
gacaatgtaa ccctaaac 498

<210> 241

<21 1> 378

<212> DNA

<213> Homo sapiens

<400> 241

ggccaaggct aaagccggag caggctctgc caccctctcc atggcgtatg ccggcgcccc 60
ctttgtcttc tccttgttg atgcaatgaa tggaaaggaa ggtgtgttg aatgttcctt 120
cgtaagtca caggaaacgg aatgtaccta cttctccaca ccgtgtctgc ttgggaaaaa 180
gggcatcgag aagaacctgg gcatcggcaa agtctcctct ttgaggaga agatgatctc 240
ggatgccatc ccgagctga aggcctccat caagaagggg gaagatttcg tgaagaccct 300
gaagtgagcc gctgtgacgg gtggccagtt tccttaattt atgaaggcat catgtcactg 360
caaagccgtt gcagataa 378

<210> 242

<21 1> 428

<212> DNA

<213> Homo sapiens

<400> 242

tgtgtagcgt aggcctttcc caagggtcgc tagaaactcg tcttcgcgtt gcccccttc 60
tggtctcag cgccgtcgcc actcgggaga ggctgggtga ggcccggtg aggactgacc 120
ctggattcct cgaaactgcc attgtgatca ttactctgct ctttggaat ggctgtatca 180
ttttttgta ctaatgtgaa ttgttctca gaaacgcttc tttccatcc tagtgagaag 240
ctggccctgc aggtgggtgg agcaatggtg ttgtaagatt tctcccga gtttttctc 300
ctcatggatt tgaatgaaat gccataaca cgtccactti caacgtgtag ttacgcgga 360
gcactttcga ggctggccg ggttgggcct actctcacc tgggcctatc ttctgaactc 420
gctaggtt 428

<210> 243

<21 1> 534

<212> DNA

<213> Homo sapiens

<400> 243

gaagataacc ggctcattca cttcctccca gaagacgcgt ggtagcgagt aggcacaggc 60
gtgcacctgc tcccgaatta ctaccgaga cacacgggct gagcagacgg cccctgtgat 120
ggagacaaag agctcttctg accatacct tcttaacacc cgctggcatc tccttcgcg 180
cctccctccc taacctactg acccaccttt tgattttagc gcacctgtga ttgataggcc 240
ttccaaagag tcccacgtg gcatcaccct ccccgaggac ggagatgagg agtagtcagc 300
gtgatgccaa aacgcgtctt cftaatccaa ttctaattct gaatgttctg tgtgggctta 360
ataccatgtc tattaafata tagcctcgat gatgagagag ttacaaagaa caaaactcca 420
gacacaaacc tccaaatttt tcagcagaag cactctgcgt cgctgagctg aggtcggctc 480
tgcgatccat acgtggccgc acccacacag cacgtgctgt gacgatggct gaac 534

<210> 244

<21 1> 532

<212> DNA

<213> Homo sapiens

<400> 244

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cagaaagtct cagcccagga tggggcttct tcaacagggc cctgcccctc ctgaagcctc   60
agtccttcac cttgccaggt gccgtttctc ttccgtgaag gccactgcc aggtcccag   120
tgcgccccct agtggccata gcctggtaa agttcccag tgcctccttg tgcatagacc   180
ttcttctccc accccttct gccctgggt ccccgcccat ccagcggggc tgccagagaa   240
ccccagacct gcccttacag tagttagcg cccctccct cttcggtg gtgtagaata   300
gccagtagtg tagtgcgtg tgcttttac tgatggcggg tgggcagcgg gcggcgggct   360
ccgcgcagcc gtctgtcct gatctgcccg cggcgggccc gtgtgtgtt tgtgtgtgt   420
ccacgcgcta aggcgacccc ccccccgta ctgacttctc ctataagcgc ttctcttcgc   480
atagtcacgt agtcccacc ccacctctt cctgtgtctc acgcaagttt ta           532
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<210> 245

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (363)..(363)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (418)..(418)

<223> n is a, c, g, or t

<400> 245

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tgcccatcgt caacctcaag gacgagctgc tgtttcccag ctgggaggct ctgttctcag   60
gctctgaggg tccgtgaag cccggggcac gcattcttc cttgacggc aaggacgtcc   120
tgaggcacc cactggccc cagaagagcg tttggcatgg ctggacccc aacgggcgca   180
ggctgaccga gagctactgt gagacgtggc ggacggaggc tccctcggcc acgggccagg   240
cctctcgt gctggggggc aggtcctgg ggcagagtgc cgcgagctgc catcacgcct   300
acatcgtgct ctgatttag aacagettca tgaactgcct caagtagcca ccgcctggat   360
gcngatggcc ggagaggacc ggcggctcgg aggaagcccc caccgtgggc agggagcngc   420
cggccagccc ctggccccag gacctggctg ccatacttct ctgtatagtt cacgttt   477
```

<210> 246

<211> 445

<212> DNA

<213> Homo sapiens

<400> 246

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gtcactaacc tgtctcagt tggccttgc cagccttgtg tttctgtaa cccctgtttg   60
tggtagaga taatagatcc tttttctc tcacataata tgcatttgc ctctaggac   120
agtgtatac atttatgtga agtaaagaca tgcgagactg tggcctgca aatagcatcc   180
gtcaatctgt gttaactgca tagggagggc tctgcatagc acctgctata gcggtgtcat   240
gttgatcgc tttgtgact gttcatctgt ccttgacagt ggctgtcatc ttgactactt   300
tgttgatttg ttgtattgg gcacattta aaggctgagt tttttgaa tgtcatgttt   360
atgtcataga cgtagtttc gcatccttga attaaactgc cttaactcct tttgtgtat   420
aagcaaaact ccatggactc tgttc           445
```

<210> 247

<21> 182

<212> DNA

<213> Homo sapiens

<400> 247

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tctgcagcct acgcatgaat aggttggcag gtgtgggctg gcgggtggac tacaccctga 60
gctccagcct gctgcaatcc gtggaagagc ccatggtgca cctgcggctg gaggtggcag 120
ctgccccagg gacccagcc cagcctgttg ccatgtccct ctacgcagac aagttccagg 180
tc                                     182
```

<210> 248

<211> 403

<212> DNA

<213> Homo sapiens

<400> 248

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ttattctct aattaacagc tcctaggaaa atgtagactt ttgctttatg atattctatc 60
tgtagtatga ggcatggaat agttttgat cggaatttc tcagagctga gtaaaatgaa 120
ggaaaagcat gttatgtgtt ttaaggaaa atgtgcacac atatacatgt aggagtgtt 180
atctttctct tacaatctgt tttagacatc ttgctttatg aaacctgtac atatgtgtgt 240
gtgggtatgt gtttattcc agtgagggtc gcaggcttcc tagagggtgt ctataccatg 300
cgtctgtcgt tgtgctttt tctgtttta gaccaatttt ttacagtctt ttgtaagca 360
ttgtcgtatc tggtagtgga ttaacatata gccctttgtt tct 403
```

<210> 249

<211> 487

<212> DNA

<213> Homo sapiens

<400> 249

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gccgtctcaa agtttcttag ctgactttgg ctttcacatt tgttcttcc agagctaact 60
gataagagtg gaggaggaat gccttctcct aagagtcagt tgaagaaaag acaagagagt 120
cacatcttag ctttgcaca aggcattcgt ggtcaggaat aggttaggga atggtcactt 180
ctgattttcc aacagttgct ccttctctga agagatcttg attcctttgg gaagacaaga 240
atttttcta ataacaagg tccctttatg agttattcct tctttcagtt catctcactg 300
gagcacagcc aagatggaca tgtttatgga cagtgtctta gatgtgaaaa cagatagaac 360
tggtttgtgg gacaggggca gcttgctcag gagagggaat aacgcaggtc cctttcttg 420
gaaggcttgt actatggcca tgacagtgc attgccctca ccatgatccc tctccaaagt 480
ggttgto 487
```

<210> 250

<21> 471

<212> DNA

<213> Homo sapiens

<400> 250

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tttgctatca gctcttctgc tatgaagtag taaaaggcag tctataatta actgacagac 60
ctaactgaag cacagagaat acatcagact tatgatcca agacatcaga acttggattt 120
tatcaaaact gatgacttct ctaaaaggag ctttggaac ttcaaattca gctataggat 180
agtaccaatg aacacatcca gctgatccca aaagctgttt tcaggtataa ggacaaggag 240
aggagacaag tgacgacagc cattccccct tgcagctatc tactgtagtg acagccattt 300
cttggttgat gggttggaag tcatcagagg ttggaagaat tacactggcc ttgtttttc 360
tggaatgcc gaccatggag atgctttaga gtcttctcaa atagcttaga tgttgtaatg 420
aggttagctt tgcttataa aacaggggcc ctcaagaatt ctcttaaat t 471
```

<210> 251

<211> 529

<212> DNA

<213> Homo sapiens

<400> 251

```
cctctacctg gggtcgggtc aggagctcca tctgggaact aacagctgct aacctgacca 60
gccgctcagg acaggaccct ggggctacac tctgcattg ctgcaatact gctccccag 120
cctctccctt gcccctcaac ctgccttagc tgcactctct tacctacagc tggacagtac 180
ctgtctgttt cctgtectcc ttccagttac atctgtccat gtctggactc ggctggccgt 240
tcctccagc cccttctgg ttatcttact ctgagtgtga tgcagtcaga ggcacctgcg 300
ggttagccca ggggcccagg ccctggattt ggctgcgga ggagcttagg atctctgtt 360
tctgggtttt ggtgatgttg gaggagtacc cccagccca ccgccccgat tccttttgc 420
ttctggttg gagctccgga ccaggacctt cgtctgtgtc agtttttaa taattatta 480
gcagtgtaac tttaaacct gcgtgacatc taaaagcgc ccaataaag 529
```

<210> 252

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (160)..(160)

<223> n is a, c, g, or t

<400> 252

```
gggtcattgt ttaagatctg gctggtggtta cctagcctgc tggaactggc atgggagaag 60
ctgcttgcgg ccttcctaa ccttgcaaac ctctccgaa cacaacttct gcaccttgga 120
ctcacacagg gactcatcga acgcttgaaa tgaggatttn tggactgttc attgatactg 180
gaaatgttaa ttaaagaga ctctttatt tatgggcagt gtagaatgtg ctacaaagag 240
gattggttac cctgatcaag gccttattta gaaaatacat cagatgcctt tctgtaaatt 300
ggttttcag tttatggaca tctcacttcc ccacgtgctt ccttcttgc ttctgttct 360
cctgacctat tacatgcaca tgtactcaca tactccctct tccttctcga tggagttaa 419
```

<210> 253

<211> 358

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (134)..(135)

<223> n is a, c, g, or t

<400> 253

```
ttgcttttcc tctaacttgg caagagctat ggctcttcta tttccaatc acacagcttg 60
gcatgtagga aagggtgaat gatcctctaa gactgtgttg gtcttcgtat tctgtaaaac 120
ccatttttt ttnngtggg ctacagatg tttagaaagt ggcacaggtt actgaattgt 180
ctacctgcca gcattctgat atagcacaaa aagctatttt cctttatttt ttgtattatt 240
ttttatttt ctggcatlga gctctagggg ggaatgagggt ttatggtcct ctgatcataa 300
gctccattct aaaaactggg cactgttagc tgaaattgct ttggttcccc aaatgcct 358
```

<210> 254

<211> 516

<212> DNA

<213> Homo sapiens

<400> 254

```

ggcctttccc ttctaaggctc attagattca gccaaaagcg acctcttctc tagtccggtg   60
ttacgaacag aagtcttgag ttgtgtaca aaagtagttc catctttttg gtgtaatttt   120
cacgttttta atttgaaaaa aaaaaaaaaa acaactttt ataagtttt taagggcct   180
gcttagtcag tgtacagggt ggagtcagag gcagttttca gaaaaaaac aaaaaacaaa   240
aaacaatttc accaagcggg agtaattgtt gttttactag ttatacattt agaataataa   300
ggaggcatca gaaacacac tctctaaagc cacttccttg tgcacagagt ctgcacaggg   360
agagcacagg catctccctg gaaaagcacc tgccaatgac gaatttcatt gaagaaccta   420
ggcaagaaag gaagcctctt tctgagacac agtctctgag aggtgagcct agctttgctc   480
ttctacagg gtatgcttg gccatacaca atgctc                               516

```

<210> 255

<211> 514

<212> DNA

<213> Homo sapiens

<400> 255

```

gaccagtctt tcggagagca cctgttgag tctgatcttt tcccgacgtc tacttccttg   60
agtcccttct acctcgcc accctcctt ctgcgggcac ccagctgggt tgacactgga   120
ctctcagaga tgcgcctgga gaaggacagg ttctctgtca acctggatgt gaagcacttc   180
tccccagagg aactcaagt taagggtgtt ggagatgtga ttgaggtgca tggaaaacat   240
gaagagcgcc aggatgaaca tggtttcac tccaggagggt tccacaggaa ataccggatc   300
ccagctgatg tagacctct caccattact tcatccctgt catctgatgg ggtcctcact   360
gtgaatggac caaggaaaca ggtctctggc cctgagcgca ccattcccat caccctgtaa   420
aagaagcctg ctgtcaccgc agccccaag aaaaagatgc ctttcttga attgcatttt   480
ttaaacaag aaagttccc caccagtga tgaa                               514

```

<210> 256

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (267)..(267)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (409)..(409)

<223> n is a, c, g, or t

<400> 256

```

tcggacactg gccttgggaa caatgttga gagaacactt gccccttgac ttaggagcc   60
agaaggggac ccagtggtgc atagctctct gtagacattt ttaccaaac ctgttggtaa   120
agtgtccatc tgggtctcaa gagagcctgg ggggtctaaca gggagcccg ctgcctcacc   180
tggccacagc ctccacacca gatctccaca ttgtcttgat ccagaccagc tctgtgatca   240
gaaggaaatt ggggtccagt taggagngag ctggtcctgg gcctggcagg caagagtgtg   300

```

ggcatccttt cctggccttt ctccactctc cctcaagcct gtgtcaggt tgccttgaat 360
gtggactctg gaagagccag gggcccagaa tgccggggga ggcttctng tggcactcat 420
ggaacaccgt ccctctgcca gccataggcc ctgcctccag tgtcaggga tggaggctgg 480
gctgcgagag tgttgcctgc 500

<210> 257

<211> 500

<212> DNA

<213> Homo sapiens

<400> 257

atgcaccgt ttccagaagc tgcgttgcca acgtcacatc ccaaaatagt gttgacatcc 60
ctgcctgcgc tggcgggtccc acccccgact ccaccaaag cggcacctcc cgcgtaggtc 120
aatgggctgg agctgtcaga gccgcggagc tggctgtacc tagaagagat ggtcaactcc 180
ttgtcaaca cagcgcagca gctgaagacg ctgtttgagc aagccaagca tgcagcacc 240
taccgagaag ctgccacaaa ccaggccaag atccacgctg acgcagagcg gaaggagcag 300
tctgcgtta actgcggccg ggaggctatg agcagtgca ccggttgcca caaggtaac 360
tactgtcca acttctgcca acgcaaggac tgggaaggat accagcacat atgcggccag 420
tcagcagctg tcaccgtcca ggcagacgaa gtccacgtgg ctgaaagcgt gatggagaag 480
gtgaccgtgt gaggtccat 500

<210> 258

<211> 516

<212> DNA

<213> Homo sapiens

<400> 258

agatgcctgt ttgtatttg gtggaagata gatgttcata ttgaagcagt cacatttga 60
ctgtagtca ataaaagaaa aatgaagtat tctgtagcct atattttca tagagctcat 120
gagcatttac tgtacttgc gggcttggcc aagatcattt attccgctgc attgccaaag 180
tgtcttcata ccaaaataaa ggtggtttta atatatgttt catggaagtt gttataaaa 240
ttcaaaggta ttctattag gtgaaaagtc ttatttatta aagtgtttg aataaagtag 300
atcaaaactt ccagagatct taatggctat ataggaagaa atatcactca ccataattta 360
aataaagaat aaaaatacat gtattttatg gtggcaaatg ttggtagaa ctgtaattag 420
aaaaatacaa gtatatgtgc gtgatgttta cactagaagc ccagacttta cgactacaca 480
atatattcat gtatctaaac tgtacttga cccct 516

<210> 259

<211> 375

<212> DNA

<213> Homo sapiens

<400> 259

ttttaccttg gatgctgact tctaaatgaa ctgaagatgt gcccttactt ggctgatttt 60
tttttccat ctcataagaa aaatcagctg aagtgttacc aactagccac accatgaatt 120
gtccgtaatg ttattaaca gcatctttaa aactgtgtag ctacctaca accagtcctg 180
tctgtttata gtgctggtag tatcaccttt tgccagaagg cctggctggc tgtgacttac 240
catagcagtg acaatggcag tcttggttt aaagtgaggg gtgaccttt agtgagctta 300
gcacagcggg attaaacagt cctttaacca gcacagccag ttaaagatg cagcctcact 360
gcttcaacgc agatt 375

<210> 260

<211> 427

<212> DNA

<213> Homo sapiens

<400> 260

```
gtacgagacc tgttcagat gaagctttt gtggatacag atgcggacac ccggctctca   60
cgcagagtat taagggacat cagcgagaga ggcagggatc ttgagcagat tttatctcag  120
tacattacgt tctgaagcc tgcctttgag gaattctgct tgccaacaaa gaagtatgct  180
gatgtgatca tccctagagg tgcagataat ctggtggcca tcaacctcat cgtgcagcac  240
atccaggaca tctgaatgg agggccctcc aaacggcaga ccaatggctg tctcaacggc  300
tacacccctt cagcgaagag gcaggcatcg gagtccagca gcaggccgca ttgaccgctc  360
tccatcgga cccagcccct atctccaaga gacagaggag gggtcaggag gcactgctca  420
tctgtac                                     427
```

<210> 261

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (435)..(435)

<223> n is a, c, g, or t

<400> 261

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gaagatgtcg gcagggctgg gcttcagcct ggaaggaggg aagggtccc tacacggaga   60
caagcctctc accattaaca ggatttcaa aggagcagcc tcagaacaaa gtgagacagt  120
ccagcctgga gatgaatct tgcagctggg tggcactgcc atgcagggcc tcacacggtt  180
tgaagcctgg aacatcatca aggcaactgc tgatggacct gtcacgattg tcatcaggag  240
aaaaagcctc cagtccaagg aaaccacagc tgctggagac tcctaggcag gacatgctga  300
agccaaagcc aataacacac agctaacaca cagctcccat aaccgctgat tctcagggtc  360
tctgtgccc cccacccag atgggggaaa gcacaggtgg gcttcccagt ggctgctgcc  420
caggcccaga ccttntagga cgccaccag caaaaggttg ttc                               463
```

<210> 262

<211> 531

<212> DNA

<213> Homo sapiens

<400> 262

```
ttggaatggg cagctcatct ctgtcccact tggcatcagc tggcgtcatg caaagtcattg   60
caaaggctgg gaccacctga gatcattcac tcatacatct ggccgttgat gttggctggg  120
aactcacctg gggctgctgg cctgaatgct tataggtggc ctctcctgt ggctgggct  180
cctcacaaca tgggtgtctgg attcccagga tgagcatccc aggatcgcaa gagccacgta  240
gaagctgcat ctgttttata cctttgcctt ggaagtgtga tggcatcacc tccaccatac  300
tccatcagtt agagctgaca caaacctgcc tgggtttaag gggagaggaa atattgctgg  360
ggtcatttat gaaaaataca gttgtcaca tgaaacattt gcaaaattgt ttttggttgg  420
attggagaag taatcctagg gaagggtggg ggagccagta aatagaggag tacaggtgaa  480
gcaccaagct caaagcgtgg acaggtgtgc cgacagaagg aaccagctg t                               531
```

<210> 263

<211> 528

<212> DNA

<213> Homo sapiens

<400> 263

gtatcgatat gggtcctttt ccgtcaccct ggacattgtc cagggtattg aaagtgccga 60
 gatcctgcag gctgtgccgt ccggtgaggg ggatgcattt gagctgactg tgcctgcca 120
 aggcgggctg cccaaggaag cctgcatgga gatctcatcg ccagggtgcc agccccctgc 180
 ccagcggctg tgccagcctg tgctaccag cccagcctgc cagctgggtc tgcaccagat 240
 actgaagggt ggctcgggga catactgcct caatgtgtct ctggctgata ccaacagcct 300
 ggcaagtgtc agcaccagc ttatcatgcc tggtaagaa gcagggggcc ttgggcaggt 360
 tccgtgatc gtgggcatct tgcgtgtgt gatggctgtg gtccttgcac ctctgatata 420
 taggcgcaga ctatgaagc aagacttctc cgtacccag ttgccacata gcagcagtc 480
 ctggtgcgt ctaccccgca tctctgtc ttgtccatt ggtgagaa 528

<210> 264

<211> 529

<212> DNA

<213> Homo sapiens

<400> 264

gaatggtgca tacaaggcca tccccgttgc ccaggacctg aacgcgcctt ctgattggga 60
 cagccgtggg aaggacagtt atgaacgag tcagctggat gaccagagtg ctgaaaccca 120
 cagccacaag cagtccagat tatataagcg gaaagctaat gatgagagca atgagcattc 180
 cgatgtgatt gatagtcagg aactttcaa agtcagccgt gaattccaca gccatgaatt 240
 tcacagccat gaagatatgc tgggtgtaga ccccaaaagt aaggaagaag ataacacct 300
 gaaatttctg atttctcatg aattagatag tgcatttct gaggtcaatt aaaaggagaa 360
 aaaatacaat ttctacttt gcatttagtc aaaagaaaa atgctttata gcaaatgaa 420
 agagaacatg aaatgcttct ttctcagttt attggttgaa tgtgtatcta ttgagtctg 480
 gaaataactg atgtgttga taattagttt agttgtggc tcatggaa 529

<210> 265

<211> 372

<212> DNA

<213> Homo sapiens

<400> 265

cctgcggagg tgggcggcat gcagctccgc ttgcccggc tctccgagca cgccacggcc 60
 cccaccggg gctccgcgcg cgccgcgggc tacgacctgt acagtgccta tgattacaca 120
 ataccaccta tggagaaagc tgtgtgaaa acggacattc agatagcgt ccttctggg 180
 tgttatggaa gagggtctc acggtcaggc ttggctgcaa aacactttat tgattagga 240
 gctggtgtca tagatgaaga ttatagagga aatgttggtg ttgtactgt taatttggc 300
 aaagaaaagt ttgaagtcaa aaaagggtgat cgaattgcac agctcattg cgaacggatt 360
 tttatccag aa 372

<210> 266

<211> 409

<212> DNA

<213> Homo sapiens

<400> 266

agtcaagtga ccagcctctg actgtgcctg tatctccaa attctccact cgattccact 60
 gctaaactca gctgtgagct gcggataccg cccggcaatg ggacctgtc ttaacctcaa 120
 acctaggacc gtcttcttt gtcattgggc atggagagaa cccatttctc cagactttta 180
 cctacccgtg cctgagaaag catacttgac aactgtggac tccagttttg ttgagaattg 240
 tttcttaca ttactaaggc taataatgag atgtaactca tgaatgtctc gattagactc 300
 catgtagtta ctctcttaa accatcagcc ggcctttat atgggtcttc actctgacta 360

gaatttagtc tctgtgtcag cacagtgtaa tctctattgc tattgcccc 409

<210> 267

<211> 523

<212> DNA

<213> Homo sapiens

<400> 267

ggtatcttca taaaatcggg gcaactgagaa tgcagctgga cccatgtgaa gatacctcac 60
tccagcccac ttctaggaa caatggaaga agaaaggact gaaccagggt atttttgtta 120
ggttttctat gtgactccaa gaggggaatgg tcaagttgtt tcatgagttt gcatgggccc 180
ttggaaaaac aggaaaggag caatgaagat ccaagcaaaa cttfacttcc agcgttggct 240
tggaggacaa ataagaaatg aaacatccta tgaaatactt tatagcacat ggcagatttg 300
caactagtaa aatgctgggtg aaatgctgtt ggtaaagcac atgggtccaaa tctagaagat 360
gcagttcaaa aacaagacag actcgagttg ttagggctga ggaaccaatc aaggtagaac 420
aaagaaaatg ttggggtaaa agtgttgctg attgtcaaca caaactggct taataatatt 480
aataagaacc tgtcttatta agactggctt tagaaccgta ggt 523

<210> 268

<211> 161

<212> DNA

<213> Homo sapiens

<400> 268

gtgcatgcca tatgatcagg acagcttttc cactttactc ggtttctac aagcaagtag 60
gaaatacagt gaatttacc taaatgtcc aatctgtatt tatgtacctt gtcagtgttt 120
tgtgttgggt ttctaaaac aatctgatca ataatctta t 161

<210> 269

<211> 445

<212> DNA

<213> Homo sapiens

<400> 269

caacaagacg gacctggctg ataagaggca gataaccatc gaggaggggg agcagcgcgc 60
caaagaactg agcgtcatgt tcaatgagac cagtgcgaag actggctaca acgtgaagca 120
gctttttcga cgtgtggcgt cggctctacc cggaatggag aatgtccagg agaaaagcaa 180
agaaggggatg attgacatca agctggacaa accccaggag ccccgggcca gcgagggcgg 240
ctgctctgc taatgcagag ccgacctgtg gcttcccatg acactcctg cttgttgtgt 300
tgcttctat tggctagctt cctaaggggg gaggaaccg agttatcaag atgggaggat 360
ttttctttc tctctgtctt taggagtagg gtgggatggg gagggaggct gggcatcagg 420
gatcacatca ctctaacgg ctgtt 445

<210> 270

<211> 503

<212> DNA

<213> Homo sapiens

<400> 270

gacattgcct gtatgatcgg gtaccgacct tgcccctgga tgaaatgggt ctggctcttc 60
ttaccccgc tgggtgcat gggcatcttc atcttcaacg ttgtgtacta cgagccgctg 120
gtctacaaca acacctacgt gtaccggtgg tggggtgagg ccatgggctg ggccttcgcc 180
ctgctctcca tgctgtgcgt gccgctgcac ctctgggct gcctcctcag ggcaagggc 240
accatggctg agcgttgga gcacctgacc cagcccatct ggggcctcca ccactggag 300

taccgagctc aggacgcaga tgtcaggggc ctgaccaccc tgaccccagt gtccgagagc 360
agcaaggctc tcgtgggtgga gagtgtcatg tgacaactca gtcacatca ccagctcacc 420
tctggtagcc atagcagccc ctgcttcagc cccaccgcac cctccaggg ggctgcctt 480
tcctgacac tttggggtc tgc 503

<210> 271

<211> 508

<212> DNA

<213> Homo sapiens

<400> 271

tcaactccat agtgaagtct gatgtggaca tccgcaaaga cctgtacacc aacacagtgc 60
tgtctggcgg caccaccatg taccctggca tcgcccacag gatgcagaag gagatcactg 120
ccctggcgcc tagcattatg aagatcaaga tcattgctcc tccaagcgc aagtactccg 180
tgtgggtcgg tggtccatc ctggcctgc tgtccacctt ccagcagatg tggatcagca 240
agcaggagta tgatgagtca ggccctcca tgtccaccg caaatgcttc taggtggact 300
ctgacttagt tgcgttacac ctttcttga caaaacaaa ctctcagaa aacaacatga 360
gattggcgtg gctttattg tttcttgtt tcatttttg tttgtttt tattggcttg 420
actcaggatt tgaaaaccgg aacggcgaag gtgatagtag tcggttggag cgagcttccc 480
ccaaagtctt acaatgtggc caaggact 508

<210> 272

<211> 502

<212> DNA

<213> Homo sapiens

<400> 272

tcactgtcag tcgacactc catgtccagg tttcccatc atatgattcc cgtctctct 60
ggtccccaca caactggcat cctcatcca gctattgtaa cacctcaggt caaacaggaa 120
catccccaca ctgacagtga cctaatgcac gtgtgctctg cttttctct ccccatccc 180
ttctctatc cttaacccc ttcccctaac caccaccacc accacctttt aggaagcctc 240
agcatgaaca gagaaaggag caggagccaa aaagacctca cattaagaag cctctgaatg 300
cttttatgtt atacatgaaa gaaatgagag cgaatgtcgt tgcctgagtgt actctaaaag 360
aaagtgcagc tatcaaccag attcttggca gaagggtggca tgccctctcc cgtgaagagc 420
aggctaaata ttatgaatta gcacggaaag aaagacagct acatatgcag ctttatccag 480
gctggtctgc aagagacaat ta 502

<210> 273

<211> 552

<212> DNA

<213> Homo sapiens

<400> 273

aagccagcta cagatgcatg catattgtga aaaccagat atagtgtgtg gtggaacaa 60
gagtgatctg gaggaccaga gagtagtgaa agagaaatat ggaatcccct actttgaaac 120
tagtgctgcc aatgggacaa acataagcca agcaattgag atgcttctgg acctgataat 180
gaagcgaatg gaacgggtgtg tggacaagtc ctggattcct gaaggagtgg tgcgatcaaa 240
tggtcatgcc tctacggatc agttaagtga agaaaaggag aaaggggcat gtggctgttg 300
agaagtcaag taagcgacat agtagttcag gtggcccatg cctgggatct tctctatgat 360
tgatacatgg cacagtgaga gattaatggg cattgtgtac aaattgcttc tcaccatccc 420
cattagacct acgaataaag catccgggtc taaaattaat ttgttcagc ttgtaaata 480
tttcttaag attcagcctg agagttagga gaaatatttc agagccaaaa gtgccttata 540
caaccttagc ct 552

<210> 274

<211> 417

<212> DNA

<213> Homo sapiens

<400> 274

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ggagccccgt cataggaagt gaggtcttcc tgcccaacag caaccacgtg gccagtggcg    60
ccgggggaggc agaggaacgc gttgtggtga tcagcagctc ggaagactca gatgccgaaa    120
actcgtcctc ccgagagctg gatgacagca gcagtgagtc cagtgcacac cagctggaag    180
gccccagcac cctcagggctc ctggacgaga accttgctga cccccaagca gaagacagac    240
ctctgggttt ctttgacctc aagattgaca atgaaagtgg gttctctcgg ggctaccccc    300
acccctttct aatttagtct ctgagtccca aaaagaagtg caggcagagc catctgccag    360
gcccaggaga gctctgagct ctggccaaca actgcagcca ggctgggcag agcactc    417
```

<210> 275

<211> 510

<212> DNA

<213> Homo sapiens

<400> 275

```
gttctgcggg atgggtcagt tccccggcga cgtgaggagg caggccctcc tgcagtgtg    60
tctgctctc tgccaccgtt tcccgctgat ccggaagacc acggccagcc aggtgtacga    120
gacattgctc acctacagtg acgtcgtggg cgcggatgtg ctggacgagg tggtagctgt    180
gctcagtgc actcgtggg acgcggagct tgcagtgtg agagagcagc gcaaccgtct    240
gtgtgacctt ctgggcgtac ccaggcccca gctggtgccc cagcctggtg cctgtgaag    300
ccagtctgg agccatacc tcacctgc ctggtgagga tgtctgttc ctgaggagg    360
ccggtgtgga aagcctcgca cagtgtgtcc tccagctgtt gaagggtagc gctggccctt    420
ggaggctggc actagctgac agcttttct ctctgcacct gcgctctgtt gacttggggt    480
ggacgcctct gccttcaact gaacacaaat                    510
```

<210> 276

<211> 551

<212> DNA

<213> Homo sapiens

<400> 276

```
ggatggggct tcttcaacag ggcccctgcc ctctgaagc ctactcctt caccttgcca    60
ggtgccgttt ctctccgtg aaggccactg ccaggtccc cagtgcgccc ctagtggcc    120
atagcctggt taaagtccc cagtgcctcc ttgtgcatag accttcttct cccacccct    180
tctgccctg ggtccccggc catccagcgg ggctgccaga gaaccccaga cctgccctta    240
cagtagtgta gcgccccctc cctcttcgg ctggtgtaga atagccagta gttagtgcg    300
gtgtgctttt acgtgatggc ggggtggcag cgggcggcgg gctccgcgca gccgtctgc    360
cttgatctgc ccgcggcggc ccgtgtgtg tttgtgctg tgtccacgcg ctaaggcgac    420
cccccccc gtagtgactt ctctataag cgcttctct cgcatagtca ctagctccc    480
acccaccctt ctctgtgt ctcacgcaag tttatactc taatatttat atggctttt    540
ttctcgaca a                    551
```

<210> 277

<211> 533

<212> DNA

<213> Homo sapiens

<400> 277

ccttgactgg ctaccaggg gagagctgg aggaagagga ggaaagtcaa gggggcgtga 60
 agcttggcct cggggacttc atcttctaca gtgtgctggt gggcaaggcg gctgccacgg 120
 gcagcgggga ctggaatacc acgctggcct gcttcgtggc catcctcatt ggcttgtgtc 180
 tgacctctct gctgcttct gtgttcaaga aggcgctgcc cgccctccc atctccatca 240
 cgttcgggct catctttac ttctccacgg acaggaagca cagcaggttt atccagatga 300
 actgagaagg tcagattagg gcggggagaa gagcatccgg catgagggtt gagatgcgca 360
 aagagtgtgc tcgggagtgg cccctggcac ctgggtgctc tggctggaga ggaaaaacca 420
 gtccctacg aggagtgttc ccaatgctt gtccatgatg tccttggtat ttattgcct 480
 ttgaaactg agtcctgttc ttgtacggc agtcacactg ctgggaagtg get 533

<210> 278

<21 1> 238

<212> DNA

<213> Homo sapiens

<400> 278

ctgggctccg aggtgtacag gatgctgcgg gagccggccg agcccgtggc cgcggagccc 60
 aagcagttag gctcctccg ctacttgcag ggcatgctag aggcggcgga gggcggggca 120
 ccctcgtcaa ggcacgggac aagctctacc atcccagtg ctcatgtgc agtgactgcg 180
 gcctgaacct caagcagcgt ggttacttct ttctggacga gcggctctac tgtgagag 238

<210> 279

<21 1> 491

<212> DNA

<213> Homo sapiens

<400> 279

gctcttctct gaagcgcagc aagctcggcc ggtacaacga ggaggagcgg gctcagcagg 60
 aggccgaggc cgcccagcgc ctggccgagg agaaggccca ggccagctcc atccccgtgg 120
 gcagccgctg tgagggtcgg gcggcgggac aatccccctg ccggggcacc gtcatttatg 180
 taggtctcac agatttcaag cctggctact ggattggtgt ccgctatgat gagccactgg 240
 ggaaaaatga tggcagtgtg aatgggaaac gctacttca atgccaggcc aagtatggcg 300
 cctttgtcaa gccagcagtc gtgacgggtgg gggacttccc ggaggaggac tacgggttgg 360
 acgagatatg acacctaaagg aattccccctg ctccagctcc tagctcagcc actgactgcc 420
 cctcctgtgt gtgcccatgg ccctttctc ctgaccccat ttaatttta ttcattttt 480
 cctttgcat t 491

<210> 280

<21 1> 268

<212> DNA

<213> Homo sapiens

<400> 280

ageagatcat gaagacaggg gcccttttgc ttacggggat gattgccgcc gtggacacag 60
 actcccccg agaggcttt ttccgagtgg cagctgacat gtttctgac ggcaacttca 120
 actggggcgg ggtgtcggc ctttctact ttccagcaa actggtgctc aaggccctgt 180
 gcaccaaggt gccggaactg atcagaacca tcatgggctg gacattggac ttctccggg 240
 agcggctgtt gggtggatc caagacca 268

<210> 281

<21 1> 261

<212> DNA

<213> Homo sapiens

<400> 281

gctctatttc caggcatgtg atgcccccg ctctccagat tccccagcac tctgctgcgt 60
gtaactccac tcaatttcc actcatcctt cctgtgaag caggatcgtt gaagttttaa 120
gtatgggcaa aaatctggaa aacttaggat ccctctgaca ccccaggatt aggggacaca 180
gcagtggcta gggcatcagc cacagaactg agcgggaaat gccacttgta ttggctgtaa 240
agaaatcctg gctttgggcc a 261

<210> 282

<211> 372

<212> DNA

<213> Homo sapiens

v

<220>

<221> misc_feature

<222> (43)..(43)

<223> n is a, c, g, or t

<400> 282

tccaaggact gagactgacc tcctctggtg aactggcct agngcctgac actctcctaa 60
gaggttctct ccaagcccc aaatagctcc aggcgccctc ggccgcccat catggttaat 120
tctgtccaac aaacacacac gggtagattg ctggGctgtt gtaggtggtg gggacacaga 180
tgaccgacct ggtcactcct cctgccaaca ttcagtctgg tatgtgaggc gtgcgtgaag 240
caagaactcc tggagctaca gggacaggga gccatcattc ctgcctggga atcctggaag 300
acttctgca ggagtcagcg tcaatcttg acctgaaga tgggaaggat gttctttta 360
cgtaccaatt ct 372

<210> 283

<211> 398

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (335)..(336)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (338)..(338)

<223> n is a, c, g, or t

<400> 283

tccccgctag cttggggcga gcagagctgc atccagtga actaaagccg ttccaggatt 60
atcaaaaact gagcagcaac cttgggggac ctggatcatc acggactccc ccaactggaa 120
ggtccttctc tggcctcaat tccgtctca aggccacgcc ttccacctac agtggagtct 180
tcgcaccca ggcgctgac cttaccagc aggcctcccc accagatgcc ctgcgtgga 240
tacctaagcc ttgggagcgg acagggccgc cacctcgaga agggccctcc cgacgggcag 300
aggagcctgg gtcccagagg gacaaggagc ctggnntngc cccaccccg ctgagggagt 360
tctcttgcc ccctaccccc ggggcttgta tatagatt 398

<210> 284

<211> 478

<212> DNA

<213> Homo sapiens

<400> 284

```
tgtagattta gtttgacgct ccccaaagt catgagacac atgctaaaat taaaattaa 60
aatttgggt cagactttgc cataatgata gactcaattt agctctctga actagttggt 120
aattttttt tttaattcc cactttggct gtgtacatca aatgaaatga gaagtgtgta 180
tgctgaccaa accacaagaa actttcttta agttgtgta aagaggaaag acctagaatc 240
caagcgtgtt acatgaaat tgtaacagag cagctgcttc cacccttcag atatagatgt 300
tggaaccaca gcagaagtta tagagcgaca actatatac acacctagaa tgtaagttaa 360
acaaaatacc ggcttcaga gacccctttt ctccagccat attacatcag gctagaagta 420
attaatgttg attatttca tctacaagca gttgttcctt aagtgaagg ctctgctt 478
```

<210> 285

<211> 336

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (299)..(299)

<223> n is a, c, g, or t

<400> 285

```
gtctgcctct ccaggattgt atgtttcaag ccttgtcctg tgttctttg tctgacgctc 60
tgtgtattgc tctttgaatc gagtttgag gaagagtga gttgtatgag tggcggcatg 120
ttggtagtgc cggacttctt gtttcaagt ttctggggcc tcgctaattg aatgtggaaa 180
gtagcaccac ttgacggcta caagtgccga ctctgaatt ttccatggt gttctgactt 240
caagggtctg cagccagga gaatggggcc aggggaagca aagacctt cctctgcng 300
ttctgtccc acttaactga cctcactgga ggctac 336
```

<210> 286

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (47)..(47)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (81)..(81)

<223> n is a, c, g, or t

<400> 286

```
tcttgacatc ctacttctt ctaagggggg agggaaagg gggaganttt ttatatatat 60
atacatatat atatatcaag ntttaaatta ttgatagttc atctggatta ccaaaatcac 120
tctgcagccc tgcccaggc tagtaggctg caaccctggt cccaccctt aacctctgc 180
tccccctcaa gccaactatg cagcccacaa gaaggccctg cgggcccccc cattgcccag 240
cactgtctca tagaaggctc tg 262
```

<210> 287

<211> 388

<212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (70)..(70)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (72)..(78)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (80)..(80)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (82)..(82)
 <223> n is a, c, g, or t
 <400> 287

```
ttcccttg ttctttatc atagagacct gcctatttat tctttggcgc catctggagt   60
actactgtg aririnnnnan gnccacggat tctcaagatt ccttatttgc ctcgagaacc  120
ttgttataaa gcagaagact gcaagattcc ttcgcctcag aaaccaatct agattttaga  180
agtgggctgg ctatagttag ccaacatgat ttagaccagc ttcaggctga tgcaatcaac  240
gcttttgag aatcactaca aaagaaactt ctggacattg aaggattata ttcaaaagtt  300
cgatctcgat atagtttcat acaggctctt gtcagacgta tccgtggcct cttgaggata  360
tcaaggaact gagagcccgt gcttatgc                               388
```

<210> 288
 <211> 438
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (300)..(300)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (303)..(303)
 <223> n is a, c, g, or t
 <400> 288

```
gagctcactg tgggatgggg ttgacctctg ccgcctgcct gggtatctgg gcctggccat   60
ggctgtgttc ttcatgtgtt gattttattt gaccctgga gtggtgggtc tcacttttcc   120
catctgcct gagagcggct gagggctgcc tctctgcaaa tcctccccac agcgtcagtg   180
aaagtctgcc ttgtctcaga atgaccaggg gccagccagt gtctgaccaa ggtcaagggg   240
caggctcaga ggtggcaggg atggctcga agccagaaat gccttaaact gcaacgtccn   300
gtnccttccc caccctcatc ccatccccac cccagcccc agcccagtc tctaggagc   360
aggaccgat gaagcgggcg gcggtggggc tgggtgccgt gttactaact ctagtatgtt  420
tctgtgtcaa tcgctgtg                               438
```


<210> 289
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (440)..(440)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (448)..(448)
<223> n is a, c, g, or t
<400> 289

```
gtcttcccta cctcaggcag gaagggcagg aaggagagcc tgctgcatgg ggtgggtag   60
ggctgactag aagggccagt cctgcctggc caggcagatc tgtgccccat gcctgtccag   120
cctgggcagc caggctgccaggccagagt ggcctggcca ggagctcttc aggctccct   180
ctctctctcg ctccaccctt ggctgtctc atccccaggg gtcccagcca cccgggctc   240
tctgtgtac atatttgaga ctagtttta ttcttgtga agatgatata ctattttgt   300
taagcgtgtc tgtatttatg tgtgaggagc tgctggcttg cagtgcgcgt gcacgtggag   360
agctggtgcc cggagattgg acggcctgat gctccctccc ctgccctggt ccagggaagc   420
tggccgaggg tcctggctcn ctgagggnca tctgccctc cccaacccc caccacac   480
ttgtccagc tcttgaaat agtctgtg                               509
```

<210> 290
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (286)..(286)
<223> n is a, c, g, or t
<400> 290

```
ttagcaacac tcatagttt gccattacc agtagacact agtggaacca tctaactgga   60
acttctctc tcctccact tatttctca aactgttgc ttactactag acacatgcaa   120
atgtatgtt taaacacacc aaaacagatc atgccaatg agttgcctgt caaaggctgg   180
agggcaggag gagggcctgg gttgggttc ttctccca gcctttggat ggtgccttgg   240
gccccttagc ccagcgcca gggcctcca gctgaggcca cagganaagc actttttat   300
gatgtactaa aagccacagt atgtggcaac tgcaaaagga tcaggaattt agggatatg   360
ctcggtcacg tgtccgggc gctgagggga aaggaagcgg gcatgattgt agacaatgag   420
ggggttctct tgatgtaatg aa                               442
```

<210> 291
<211> 467
<212> DNA
<213> Homo sapiens
<400> 291

```
gagacactag tttggccaa cttagattt tacgttaatt ttacatagt attgacact   60
```

catgcaaaat aatgtgaaaa catctagatt tagtagttta ttctgcgcct ttgttataaa 120
 ctgaagattt tggaaaatgg ttgtcactgc tcttcagacc tatgaatatt ttgtgaaat 180
 ggaaccatgg atttatgtct ggatcatcca tacagaacca acaattttat tcaaaaacaa 240
 tgtgttcac aaagtaattg ctcacattgt gcagtactat gttgtacaga ccacgtgaaa 300
 gggaatgctg gtctagctgg cgtgggtatgt ttataggcga atttcagcag aaggaagcca 360
 aaatagtttt ttccttttga aagttttta aaaattattt catgggtctt tttttaatt 420
 aatatgtgtg cattgttaca atgtatgtg gatgtctttt gacccta 467

<210> 292

<21 1> 356

<212> DNA

<213> Homo sapiens

<400> 292

ttagagccat catcatccca ggcagggata tctttgagaa atgactcagt tcagccccag 60
 gccccgtgta ctctgcttaa agcacacatt tctgtgact cttgtacctg gggcagcagg 120
 ataatacca acacactctt aacagaaaac aacacaccaa gcacagtga gctgtcctag 180
 gcaacactcg cggctcagg ctgcgggtgg cgtctgtcct gcatgtggcc cagaccaccc 240
 tgacccccgg gcctgcctgc ctggccctgc atgctgcacg ctcactgtat ttgtgcagat 300
 cctggccagt acaaagtcgt tgctcttgc ttatcttctc ttacagagtc tcctc 356

<210> 293

<21 1> 203

<212> DNA

<213> Homo sapiens

<400> 293

gtctccctcc ctttatagaa tgtaaccaa agagtgcct cctccctct cagcctctc 60
 ttagctagc ctcccatct catcacaacg catgtctgtg acctttgta atcatttaca 120
 gtgccacag gaacctgtta ttgtcacac agcaaaacaa acaatgttta gctttattta 180
 tggattttga tgctgtaaat gga 203

<210> 294

<21 1> 487

<212> DNA

<213> Homo sapiens

<400> 294

aagaaccagt gtcaatccgc agaccctctg tgaagccagg ccggccgggc cgagccagca 60
 gccccctccc ctagactcag aggcgccgcg gggaggggtg gccccgccga ggettcaggg 120
 gccccctccc cacaaaggg ttacctcac acttgaatgt acaaccacc ccaactgtcg 180
 gaaggcctcc gtctcggcc cctgcctctt gctgtgtcc tgtccccgag ccctgcagg 240
 tcccccccg cccccact caagagttag agcaggtggc tgcaggcctt gggcccgag 300
 ggaaggccac tgccggccac ttggggcaga cacagacacc tcaaggatct gtcacggaag 360
 gcgtccttt tcctttagc taacgttagg cctgagtagc tcccccat cctttagac 420
 gtccagtc ctactactgt gacggcattt ccatccctcc cctgcccggg aaggacatt 480
 gcaggga 487

<210> 295

<211> 528

<212> DNA

<213> Homo sapiens

<220>
 <221> miscfeature
 <222> (153)..(153)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (351)..(351)
 <223> n is a, c, g, or t
 <400> 295
 ctggccggggg atttgcgaac caaagcgacc attgagctca aggccctcag gctgctgaac 60
 ttccagaggc agctgcgcca ggaggtggtg gtgtgcatgc ggaggggacac agcgctggag 120
 acagccctca atgctaaggc ctacaagcgc agnaagcgcc agtccttgcg cgaggcccg 180
 atcactgaga agctggagaa gcagcagaag atcgagcagg agcgcaagcg ccggcagaag 240
 caccaggaat acctcaatag cattctccag catgccaagg attcaagga atcacaga 300
 tccgtcacag gcaaatcca gaagctgacc aaggcagtgg ccacgtacca ngccaacacg 360
 gagcggggagc agaagaaaga gaacgagcgg atcgagaagg agcgcatgcg gaggtcatg 420
 gctgaagatg aggaggggta ccgcaagctc atcgaccaga agaaggacaa gcgcctggcc 480
 tacctcttgc agcagacaga cgagtacgtg gctaacctca cgagagctg 528

<210> 296
 <211> 438
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (121)..(121)
 <223> n is a, c, g, or t
 <400> 296
 cagggcaact cccagggatg tggtagcatg cagggttcaa gtgttcttgg ttccaggcac 60
 ctcccggtc acggggagct cagaggtcca tgccaggag accaggcagg acctccgag 120
 nctgcgcccc ggccggccca tgcgtttgt gatcccaagt gactctgtgg gaagggtggg 180
 gacgaggcgt cgggagggta tacagggagc cctcccggtg catggctgcc ccccggttca 240
 tttctccac cacagccgt tgcacgtata gatactgtgg tcccccttct ttaatatat 300
 aaattatgta tggtagaagt gagtgattg ttaggtccc gtattaatg cctctgactg 360
 cctttgaagc gcagccctct gtggcccgca gcccctgag cctggctgtt gtgtggtatt 420
 tatgctctct ttgtctgc 438

<210> 297
 <211> 497
 <212> DNA
 <213> Homo sapiens
 <400> 297

aagctcccat ttgtaacca ctagtttgcg gtgacttga gtactctggt gacttctgc 60
 gtcaagcgtt ctcaagctgt gagaatgtgc gcagctccag gcaggttttc tctcgagag 120
 ttaagtcttc cttgaaggc agggaagcag gatggataca catatatcac acgcataaaa 180
 caccagggtc gggagcagcc cagactcaag gctgactaaa ctggaggctg aataccgtgg 240
 aggtccacat gcagcttccc tggagggcag gccggaggcg ctcccgcccc tgggcttgag 300
 gatgtgcac cccgtgggct tccaggcctg cccagatgat gccttcaggc ctctgtccct 360
 ggcgcccatc ctcaggccga tttgaccag caatgataga ctcttctaa cctttcaaa 420

ataaattttt cagtgggaca gaaaggagag ttaaaaaaca ttttttaaa ggtggttaaca 480
tctgaccac aaaggga 497

<210> 298
<211> 557
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (73)..(73)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (244)..(244)
<223> n is a, c, g, or t
<400> 298
cctcatcgc tacatgagct ctgggcctgt ggtggccatg gtctgggaag ggtacaatgt 60
cgtccgcgc tcnagggcca tgattggaca caccgactcg gctgaggctg cccaggaac 120
cataaggggt gacttcagcg tccacatcag caggaatgtc atccagcca gcgactccgt 180
ggagggggcc cagcgggaga tccagctgtg gttccagagc agtgagctgg tgagctgggc 240
agangggggc cagcacgca gcatccacc agcctgagc tcaagctgcc cttaccacc 300
catcccccac gcaggaccaa ctacctcgt cagcaagaac ccaagcccac atccaaacct 360
gcctgtccca aaccacttac ttcctgtt acctctgcc caccagcc cagaggagt 420
tgagccacca acttcagtgc cttctgtac ccaagccag cacaagattg gaccaatcct 480
tttgcacca aagtccgga caaccttgt ggtggggggg ggtcttaca ttatcataac 540
ctctctcta aaggga 557

<210> 299
<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (60)..(61)
<223> n is a, c, g, or t
<400> 299
atagggttt ctgggcgag gatgtgctgg attaggaaag gtgacatgac acaggcagan 60
nagagtggca cccaccacag aatacagtgt gtgttattac gaggagccag cagttgagcc 120
taaggtcctt ctacctacct ggtattggca ttgaggtcg gaaacctct actgccccat 180
aagccaggaa aagtgaagaa agaacacagt tcctttaaga actggcagca aggcttgagg 240
ccttatgtat gtgactgagt cagcaaggt catgatgctg tctgcttca aaaggacttt 300
tctctcttag ctgactgact ccttccttag ttcaaggaac agctgagaca gacctgtgct 360
gagtagctct gtgatgaaa agccttggt taactgaggt gatcctcagg ttgtgaggt 420
tattagccc caaggcaaac acaaatatt 449

<210> 300
<211> 311
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (125)..(126)

<223> n is a, c, g, or t

<400> 300

```
atcaagtcca actgaaacat cagaacaaat aagagagaaa taagaataga atgaatgacc   60
ccaaaatagg gttttcttgg gcgaggatgt gctggattag gaaaggtgac atgacacagg   120
cagannagag tggcacccac cacagaatac agtgtgtgtt attacgagga gccagcagtt   180
gagcctaagg tccttctacc tacctggat tggcatttga ggtcggaaac cctctactgc   240
cccataagcc aggaaaagtg aaaagagaac acagttcctt taagaactgg cagcaaggct   300
tgaggcctta t                                     311
```

<210> 301

<211> 395

<212> DNA

<213> Homo sapiens

<400> 301

```
gctctggtgc tagatgccac tgtagccaga tctccaacag tgccttggac catggactca   60
tactcaactg agtaagaagg ggctggtgcc cagtcggggg ggctgagctg gtccttaata   120
gggtgtttct tggcttctgt ttctcatgc cctccccact gtcctgcca ccttagata   180
agtttctcta gctaattttg tggccaatgt aaaattcgtc atcaacctaa caaacacaac   240
cttctcagca gcatttctcc cctgtgatgg aaataaagtg ttagggcag tgggaggaga   300
aaatttccca ggtgaatggg gaagggtctg ttccagcctc tcctactcc catccattt   360
ccaccaactg gggaactgtg actatctatc tcccc                                     395
```

<210> 302

<211> 517

<212> DNA

<213> Homo sapiens

<400> 302

```
tatgttatgt gtgtgactcc ctgtgtgta tctgtgccag cctcagcctc cgagttgctt   60
ttccctctgg ccctgactct cactgactca ccgatgtgat gtgcaggccc acttcttacc   120
ccagatagcc tcgggcgctg cctgtagtca tgctgacagc tgtacagtag ccgccaagac   180
tgctgacagc tggagacggg tctggttca actacgggat attgatatcg gaagtattct   240
agacagatcc tcggttgggt ttctagcta catgtttgta ttgcacagat cccacctgc   300
catcctatag tgtgtcttc ctgtgtgtc cggggcttct gggcagctgg gcctgcccgg   360
ggaagtcctt gcaggtggga ggccatacag agaccactg tgtgccactg agcgtccac   420
tgctgctggg caactggagg actgcagggg gcgccaggtg actctctct tttatatcac   480
agcagctcct gtgctgacct tcaagttacg ttttga                                     517
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<210> 303

<211> 520

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (51)..(51)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (392)..(392)

<223> n is a, c, g, or t

<400> 303

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cttcaatttc ccattgtga ccctatcac ttatttgat atccctttt gaccaccca 180
tctcttcat atatgggcat gtccatagat tgacaaagaa agtttacct ttgaataaa 240
gatgcaaagt atgcaaaaac attaatactg atgcgaaaaa ataaaaata aaagagaaac 300
aaggcagagg aagaagggtg ttaagctctc ctgcacctgt tggaatgggt gttacagaa 360
tgatttgaga tgggatctgt ggggagggga gnaaaaaaaaa aaacaacaaa atttggtgct 420
taaaaaaaaa taaaataaaa aaagacatct ttaaatcaa tccctggtg tagacaagtt 480
ctccaaaacc agtacctggc accactcaa caaacaacg 520
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<210> 304

<211> 329

<212> DNA

<213> Homo sapiens

<400> 304

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cttcacctga aagatagtc aaattggta ggatgccacc tcaagaactg taactgagag 120
ctcagaagtg agcaaaggag ctaatgcta aggtcaaaag gagagtgaag gttgagaac 180
aattgccacg aacggtaatg ttacatgta ggagggtctg tttctttt atataagtg 240
gtcttagata tattttaat agaaaataag cttctgatt tacttgttg gtattaaag 300
cacagttgt tttctgtca cctatagag 329
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<210> 305

<211> 521

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (481)..(481)

<223> n is a, c, g, or t

<400> 305

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gttaaaggac ttgtgcaaaa tgtacaccac acttacagcc ctgtcagat attatctcca 120
ggtgtgtcag agctccggag gaattccaaa aaatatggaa aagctggtga agctgtctgg 180
ttctcatctg accccctgt gtattcttt cattcttac gtacagaata agagtaagag 240
cctgaactat acgggagaga aaaaggagaa acctgctgcc gttgccacag ccatggccag 300
agttcttcgg gaaaccaagc caatccctaa cctcatctt gccatagaac agtatgaaaa 360
atttctcgc cactttcta agaagtccaa ggtgaacctg atgcagcaca tgaagctcag 420
cacctcagga gacttcaaga tcaaaggaaa catcctagac atggttctc gagaggatgg 480
ngaagatgaa aatgaagagg gcactgcac agagcatggg g 521
```

<210> 306

<211> 496

<212> DNA

<213> Homo sapiens

<400> 306

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ctttctgcct gtactggatc tgttatttc agggaaacag gccccagggc cccctgagc   60
ctcacctaa gcccttaggc ctctgagagt gctgttgggt tctattatt tatttattg   120
ttcctttgtt ccttaccgt gccccagtg tcttccctgc tgagtaccag gagaggctct   180
gccccatcct ctctctgaag ccagggccct tccattccat ttagccttg gatcatcctg   240
gctggggagaa gtggggaccga gccacccagc cccactatcc ccaagcagcc ctacagccgg   300
gatgggagggc acgtggcctc tctttatcc gtctatttat ttgtaagtg tttcgtgtg   360
gaggaggttg ttgctttatt ttttaaggc tctggagtgt tgtgtatggt ttctttcac   420
atccagcct ccatgggca ctctaagaa gagaggggat ttcttgaaa aggagagagg   480
aatcccctag agcagg                                     496
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<210> 307

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (158)..(158)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (216)..(217)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (231)..(231)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (250)..(250)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (261)..(261)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (291)..(291)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (297)..(297)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (341)..(341)

<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (352)..(352)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (365)..(365)
<223> n is a, c, g, or t
<400> 307
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ccccggtttt cctccccgcc ctgtccctct ctggtaaacc aacatactaa agaggcgagg 120
caatgactgt tggccagttc tcaccgggga aaaaccnacc tgtaggatg gcatgaacat 180
ttccttagat cgtggtcagc tccgaggaat gtggcnacca ggctcttga ngagccatgg 240
gctgcacccn ggccgtaggc ntagtgtaac tcgcatccca tgcagtgcc ngtttcnttg 300
actgtgttgc tgtctcttag attaacctg ctgaggctcc nacatagctc cntggacctg 360
tgtcntagta catactgaag cgatgggtcag agtgtgtaga gtgaagtgc tgtgccaca 420
ttgtttgaac tcgcgtaccc cgtagatata ttgtgcaacg ttctctgtt attccctga 480
ggtggttaact tcgtatgttc agt 503

<210> 308
<211> 434
<212> DNA
<213> Homo sapiens
<400> 308
tgagagctgt ctaggctgt atcccagatt gttgcttaac gacatctgac agatgcattg 60
ttttctgaaa tcagcttaag acaccaattg tggcaactgg aaactcatta cctgctgcat 120
tggatcaact atggaagttg gagcaggggt gggcggagggt cacctaacca atcaatggaa 180
ggcaactcac acctgctcca agcctcagct ttgagaaaca aacacgttta taagaaaaaa 240
tatatagcta ttattacaga agtgaatatg ttgtgctctc ttactgctc ttgtgcattg 300
acagtttctg tatctcaacc ctattcatct ttatgaaaaa gcattctgaa gatctatcct 360
cagcactgct gagtgtgcag tcacacttc ctaccaaccc cctcttacc atctctagct 420
gccatttgtg gggg 434

<210> 309
<211> 572
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (163)..(163)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (486)..(486)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (547)..(547)
<223> n is a, c, g, or t

<400> 309

aacaggcccc tatagggaag cagttccatg aaaatgatta attctttcca aaagacttaa 60
aatttttcc tatttcaatt ttcctttcaa aaaaggaaat acattcatgt agttcaaaac 120
ttaagaaaac aaaagtctgt tcagcaaaag actcccactc cgnntcccca aacgctgagc 180
cccaccccc atccctggta gcaagaagtg ttccaattt taaggtaag aaacaaagtc 240
cctggatttg tgtagggat gtctctga gagtgggttg tgttccgtt gaccctggcg 300
gttgacctg gccactagg atcatgccg cctctccagg gaggagggcc tccccatcac 360
cctgtacagt ggcacccag ccttggcact gcccgccctt gctcagcgta cctttccat 420
ggcactctga cgtactggat gtttggttc tgaagtact ggctgttac cctgccggga 480
tgtaancccc tccagggcag gggcttctc cgtgttcagt gctgcatccc agctgctggg 540
cacggtncct ggtccatggc gtcaataaa ta 572

<210> 310

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (73)..(73)

<223> n is a, c, g, or t

<400> 310

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tggcataccg ttnggtgtct gatgtgtgcc cagatcgttc tgccacttgc actgtgcttg 120
ctcctaagca aaagggaata ggagcgcgcg tgatagaaga aaagcactgg gagaactaac 180
agaggagaaa ggtgaaacac acacacattc ttaaggcaat aaaactaggg ggtgtatatt 240
atcttctggt gcatgttctt ttctggaaaa tatgtagct cgccaaccgc atctgctcat 300
ctgatattca aacacacagt attcgtgaat aagttgattc tgtcccccac gtggactctg 360
tgctcaccca ttgtctcatt gccagtggg tccaagggcc cccgttggga cccacggctc 420
tcgtccctct gctccgtgtg tctcatgcca gcagcacgtc gccatccgtc accagaatta 480
gtcctcacag ctaggacca gttttgtatc aaactcgtct gatgttttga tgccatttgt 540
ctttttaa 549

<210> 311

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (37)..(37)

<223> n is a, c, g, or t

<400> 311

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tcctcttcca gggactgtgc tgttgggaac ttggggaag tcacttacct ctttgtcct 120
caatttctgt ataattttc taagctacct cactgagggtg gtatgaagat tcactaatgt 180
atgtagcgtg tttgtcaatc ctccagtga aagcactatc tagatcacat ttggatcac 240
attagccaaa tgcagtaaat ggccaaatta gatgtgtgct gaagacaatc agtcactggg 300
tctatatata acagcaacca gagcaaaaa tggcaaaaa ttctatttt caagtttctt 360
tgcattttt ttgggtgcaa aaccatttat aaacttttt tttaacact agtgtctaca 420

gcagcattca aaaaaattct gttacctttt ctgtattagg att 463

<210> 312

<211> 238

<212> DNA

<213> Homo sapiens

<400> 312

tgggatctca gatcctttgt cactgcctat agactttag ctgctgtctc tctttgtccc 60
tgcagagaat cacgtcctgg aactgcatgt tcttgcgact ctggggactt catcttaact 120
tctcgtgcc ccagccatgt ttcaaccat ggcacccctc cccaattag ttccctgtca 180
tcctcgtcaa ccttctctgt aagtgcctgg taagcttgcc ctgcttaag aactcaaa 238

<210> 313

<211> 497

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (26)..(26)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (61)..(61)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (64)..(64)

<223> n is a, c, g, or t

<220>

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<222> (68)..(68)

<223> n is a, c, g, or t

<220>

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<222> (117)..(117)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (148)..(148)

<223> n is a, c, g, or t

<220>

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<222> (173)..(173)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (214)..(214)

<223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (218)..(218)
 <223> n is a, c, g, or t

<220>
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 <222> (231)..(231)
 <223> n is a, c, g, or t

<220>
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 <222> (275)..(275)
 <223> n is a, c, g, or t

<220>
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 <222> (293)..(293)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (305)..(305)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (318)..(318)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (323)..(323)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (435)..(435)
 <223> n is a, c, g, or t

<400> 313
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 naanaatnaa aaaaaaaaaa aaaaaaaaaa ggccggggcgc agtggctcaa gcctgtngtc 120
 ccagcacttt gggaggctga ggccgggcnga tcacctgagg tcaggagttt tngatcagc 180
 cttggcaaca cggtgaaacc ccatctctac taanaatnca aaattagcca ngcatgctgg 240
 cacatgctg taatcccagc tactcgggag gctgnggtac gagaatcgct tgnacctggg 300
 aggcngagga tgcagtngc cgngatcacg ccattgcact ccagcctggg ggacaagagt 360
 gaatctgtgt ctcacaaaaa aaaaaaagaa aaagaaagat gcttaacaaa ggttaccata 420
 agccacaaat tcatnaccac ttatccttc agtttcaagt agaatatatt cataacctca 480
 ataaagttct cctgtct 497

<210> 314
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (431)..(431)

<223> n is a, c, g, or t

<400> 314

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gcagcagatc atgagtgacc cagccatgcg ccttatcctg gaacagatgc agaaggaccc 60
ccaggcactc agcgaacact taaagaatcc tgtaatagca cagaagatcc agaagctgat 120
ggatgtgggt ctgattgcaa ttcggtgatg acttggtcat ccccccttc cttcgccctc 180
atgtggaaag aggagctggg accgcggcga gcagcacgga gcggaaggga gagcagggga 240
gagaaggcct catctctcta tatttataca taaccccggg gaagacacag agactcgtac 300
ctgcgctgtt tgtgccgccg ctgcctctgg gccctccag cacacgcatg gtctcttcac 360
cgctgccctc gagtccatg tctcttccc ctgccctag ttgctgtctc ggctgctctc 420
ccatagtggg nttttttt tatttggggc agtgggcatg ttatggggag gggagggggg 480
tcttcagcc tcaggtcaca gctgtctcac gttgtttatt ctgcgtcccc ttctccaata 540
aaacaagcca gttgggcgtg gtt 563
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<210> 315

<211> 524

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (29)..(29)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (39)..(39)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (41)..(41)

<223> n is a, c, g, or t

<220>

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<222> (45)..(45)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (47)..(47)

<223> n is a, c, g, or t

<220>

<221> misc__feature

<222> (55)..(55)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (187)..(187)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (373)..(373)

<223> n is a, c, g, or t

<400> 315

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ttctgaccga accctgatgt tcagtggcag agacagccca tagccagaac tgtgggtaga 120
ccagggttgg ggtgtgcggt ttgggacagc ccaaacccca gccgctgtgt caaggcctag 180
gacgcentgc tgccatcaaa aggggggtcc aggtttccat cagtggccta aagaaggac 240
ttctgttgt actgaggagt gcggaattaa agagatttga ctcccttag tattgggggc 300
agtccgttcc ccagacactg tggcctctga agtggaaact gaaagctgca tacctgggaa 360
agaactttct agnaataggc aatggccttc agtggagag ggagggctgg aggtgtgccc 420
agtacttga tgatcatctg tccacaacag cttttgttt ttttaaaaaa gctaaaatgg 480
aatggattt tatcataaag gatgacatcg ttttctcta caat 524

<210> 316

<211> 559

<212> DNA

<213> Homo sapiens

<400> 316

ggtgtgcttc gtgctgtagt tatcgttagt tcctcttccc gagatggggc cgccgagaga 60
ccccagcgc ttgaaaagc aaggtttgtg ctgcgcttcc agttccgaaa agcagatgtt 120
taagcccttg gactgagggt gggatcgag ctccgaagac ggagaggagg gaaatggggc 180
ccttccct ctattgatc cccctgccg actcctccc cgcaccacg tgccctagat 240
tcattggcaga aaatgaccaa atcctgtgta ttgtttat atatttaata actgtttta 300
atgaaagtt tagtaaaaa aatacaaac aaaaagatta aattgctatt gctgtagtaa 360
gagaagctct ttgtatctga acatagtgt attgaaatt tgtggtttt taattatt 420
aaaattgggg ggagggcatg ggaaggatt aacaccgata tattgttacc gctgaaaatg 480
aactttatga acctttcca agttgatcta tccagtgcg tggcctggtg ggcgtttct 540
ctgtactta tgtggttt 559

<210> 317

<211> 504

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (44)..(44)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (63)..(63)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (94)..(94)

<223> n is a, c, g, or t

<400> 317

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canggaatac agaagtgtc ttattaccag tttnccact tgtggccgcc ttgcaaaga 120
tccatattct aatttaagtc cccaacctct gaatttggt ttaagttac ctagtactg 180
actactctct ttataaaaaa gaccttatac ttaatgatca ttccaaagg agaccactcc 240
ttaactttta ctgcaaacc aacaagatga gaccttaaa cccagacaga tgtaacaaag 300

gatttttgtt gtctaagtcc caaagtatta tatagaaagt tcttgctttt atgggtaaac 360
ttattacctt aatatgttct gtggtttgct gtaaccaag attctcccat taaaatgcc 420
acagaccgac cctcaaggca gatccgaaag cctagtagt agttgcactg ggttgtttg 480
acaagctacc acacgtctta agta 504

<210> 318

<211> 568

<212> DNA

<213> Homo sapiens

<400> 318

acaggcgggtg tgagcatcca tgtgtggtct tggctaaac cagctctga acaggttaaa 60
gcaaacagca ataacaaaac aaaaactact gatgctgagc gtttgatcc tagtaatatt 120
tcaaatattg tcttctgca tatgttctat ccatattga ttccaatata cattattaag 180
cttcttggg tactattttg ctggggctct tgcgtgaagg tggtaacctgt ctcgatgcc 240
ttaaagaga gaggcitttt tcatccaaag ctgtagtgtt gggaactggg gtgggagagg 300
cacttttgg aattctgaaa gaatcatac tgtgtatata catactgagt gggaaggat 360
gggggttggc aggggttgag ggaggtggga acaaacagt agtatgggaa caggcagtca 420
cctcgagtgt gggaggtcac ctgggtccgt cgtcttcctt ctgtatggtg ttgggttat 480
gtacacacta taacacttcc tgtgtgagtt catgtacctg tctgtgagtg ctttgggtga 540
ttgagcctca gtacactcca agggcatt 568

<210> 319

<211> 543

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (36)..(36)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (62)..(66)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (402)..(402)

<223> n is a, c, g, or t

<400> 319

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tnnnnnctac tcaaagtgcc aaaggctaca gttttaatg acttaacaaa ttgtaccaca 120
ttgtaagga catataatga tagacactag aactcagacc tctgcatgta tatttgataa 180
catgtctttt gtaaacaata aattacaaaa aaatttgttt acattccact ggtaccttaa 240
ttaaaataa atcagactaa aaggtgggtat ctctcttag tgttctattt atcttatttg 300
ctaattgggag cacttctcc ttgttaggc tgtgctttac tgataaaacc aagtattgaa 360
taaagagagt taattatctt tttaaagtaa ataaaattat gnaaatatat atagtatata 420
taaagtactg tgttataaaa aatgttatgc aatgtttcc aaactgataa agtttgtaaa 480
gtgctataaa tgtattttgt taagtacaga taaaagctat tgtgtgagta tattgtgcta 540
aaa 543

<210> 320

<211> 258

<212> DNA

<213> Homo sapiens

<400> 320

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gagagacgct ccattgtgaa taaagagctc ataccagctc ctaagcccta ttaagaagag   60
gcctggctct ctaatgcctt gtttccattt cagttgttct ttgagagaca gaatgatgta   120
ctaaccattc gtgattatta agataggggtt gggtcagggc ttagggaggg ggcagaaata   180
ttggggatag aaaaaaatc tgatcattcc tcagtgtctac ccatttctgt cctgtgtggg   240
ctgcttagct agacagca                               258
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<210> 321

<211> 263

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (92)..(92)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (190)..(190)

<223> n is a, c, g, or t

<400> 321

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aggggaagaa acgacagcct cacttctgta tggactgctg atgtggcctg ccacctgtt   60
cagcgggcat tgtctttgga gcagcaggag antaggatgc ctctactca catgccagt   120
cctggctggc cagctgtcga gggctcaggc tggggcctcc cattgacatc ctcccctac   180
actccctctn tgagcctccg tcgcccctcc tgttgggtaa ggggtgtgag tgtgactgt   240
gctgaaaacc tggttcatat ata                               263
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<210> 322

<211> 529

<212> DNA

<213> Homo sapiens

<400> 322

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gactgtctca tgtatctgca agggccgagg aaattaatga cccaaggagg ctatgatatg   60
gtccaaaaac ttttctgga tttttccgt aggcggctga gccagaggcc aactgcagag   120
gaactggaac agaggaacat ttgaaacct cggaatgaac aagaggaaca ggaggagaag   180
agagagatca agaggaggct aaccgaaag ctacgtcaaa ggcccacggt ggaagagctt   240
cgggaaagaa agatcctcat ccgttcagt gactacgtgg aggtggctga cgctcaggac   300
tatgaccgca gggcagataa gccgtggacc cgctcaccg ctgcagacaa agctgccatc   360
cgaaaggagc tcaatgaatt caaaagcact gagatggaag ttcatgaatt gagtagacac   420
ttaacaaggt ttaccgacc ttaacagtcg aattcctctt gagtgtatg ctgtctcaa   480
aacataaatt tataagaacc ataagtctg gtatttattc acttcccca                               529
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<210> 323

<211> 467

<212> DNA

<213> Homo sapiens

<400> 323

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cctgcccggc cccaccgagg cctgagcacg ttcccgggtg ccgagcactg cctccgggct  120
tccccaaga ccacgcttag cggaggcttc ttggtgctg taattgaacg ggtcgagatg   180
ccgacgtgag tgagtggggg catgcttggg aggcgcagga tggactggc acatctaaca  240
tctacattc tctagctcag cctcacaggc caaagcatca gcaccagaac gcacaccag   300
cccagcccca aagagaaaga agagacagca aagagccgca gccggtgctt gcacaccgcc  360
ttgcacatag cagaggctcc aggcgtgact cttcctggtg ggaaaggaag atgcctgtcc  420
tctccgtgga ggaccctggg ccctcaccgc aggcagcagt ttgcatt                   467
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<210> 324

<211> 145

<212> DNA

<213> Homo sapiens

<400> 324

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gagaattccg aattggggaa cacacgatac ctgttttct ttccgttgc tggcagtact   60
gttgccgcgc agtttgagat cactgtagt aagtgtgat gcatgtgcgt caccgtccac  120
tctctact gtattttatt ggaca                                           145
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<210> 325

<211> 208

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (85)..(85)

<223> n is a, c, g, or t

<220>

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<222> (100)..(100)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (102)..(102)

<223> n is a, c, g, or t

<220>

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<222> (119)..(123)

<223> n is a, c, g, or t

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<222> (125)..(126)

<223> n is a, c, g, or t

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<222> (128)..(128)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (148)..(148)

<223> n is a, c, g, or t

<400> 325

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cctggggctg agcaaggcct acgtaggcca gaagagcagc ttcacagtag actgcagcaa 60
agcaggcaac aacatgctgc tggtnggggg tcatggcccn angaccccct gcgaggagnn 120
nnngnngnag cacgtgggca gccggctnta cagcgtgtcc tacctgtca aggacaaggg 180
ggagtacaca ctggtggtca aatggggg 208
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<210> 326

<211> 354

<212> DNA

<213> Homo sapiens

<400> 326

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gctccactgc ttaaaccaca ggacctggtt aactcctcac caagcttccc acgacctgg 60
ttgccaatgg gcgcgggaga cattgtatac acatcatgct atttaaaata cgttcaaact 120
atagtgtaaa tgctaattaa ccatattggt atataaccgg aattttatat taaaaggggc 180
ctccttttta aatatatgcc gtgtaaaaaa tgtacttata ggaacatctc ttgaattgt 240
atttctgtta tattacatac ttagagagag actcttttag ccaggcaaag tctttttgg 300
ctgtggctgg aataaatcat ttattacttg ggagtcccat ttggacact aata 354
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<210> 327

<211> 518

<212> DNA

<213> Homo sapiens

<220>

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<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (71)..(71)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (73)..(73)

<223> n is a, c, g, or t

<220>

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<222> (112)..(112)

<223> n is a, c, g, or t

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<222> (163)..(163)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (295)..(295)

<223> n is a, c, g, or t

<400> 327

aaggactggg atctttctgt gagcaataag gactggataa agactgcata tccttgtgtc 60
nnnnncagca ncnatacaat aaggagggtt ttaatgtgaa gcaggcaatc tncagcccc 120
ttctggcttt ggatgaaata gttgcacaga gtattgcacc aanaatacac aatggaggct 180
gaaaagtcca acatatatta agtcaattaa tcaaattgca ttgattcttg atgttttctt 240
agaggcctac atgatttctt agattgctct gataaactat cataaggggt ccacntcccc 300
tcatttagct cccccaggga ttcttttcc cccatgtcat acaccagtc ctaaatcaac 360
ccccaggct atcttccat ccttctgca gagggaaatt ttgtcagact ctgcaacaaa 420
ctcctagctc tatccagagt gtcctctgct gctaagattg gtatctttct cctcaaaagc 480
ctggatgggtg aatgggggtg cattagtcag aattctcc 518

<210> 328

<211> 509

<212> DNA

<213> Homo sapiens

<400> 328

ccaaaggttg ttctcccat tgtgcatgtc cttcagtctc ggccccatac ccatcacccc 60
attcttcacc ctcatgttc catcccaagg caaacatgtg tcttcacgg aatctatggg 120
tgttgaagtt aaatgtgggg gcagagattt aacaccatga cactaataca aatcaaccat 180
tcttcacttt caaatgggta atcactacag gaaggcgaac tctttcttg gttttgttt 240
aaaaacattt tatacatata tatgtatata tgtgtgtgta tgtatggaca taggtatgta 300
tatgcacatg tacatgtata tatgtatata tccatcttca atataaatat atcataagt 360
agagttgtaa atactccttg gtcatatgtc tgtctttctc atagtatcat atcttcaatg 420
ttatgttaac aactccattt attgattgat gaaatcgtgt gtagacctgt atcctcctga 480
catagtttat gtagggtctc ttctcaaat 509

<210> 329

<211> 539

<212> DNA

<213> Homo sapiens

<220>

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<222> (27)..(27)

<223> n is a, c, g, or t

<220>

<221> miscfeature

<222> (40)..(40)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (49)..(49)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (64)..(64)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (84)..(84)

<223> n is a, c, g, or t

<220>
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<222> (90)..(91)
<223> n is a, c, g, or t
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gagntcagg aggaggaggg cgangacgan ncgtatagtc ccccgcgaga cgggttaggg 120
aaagcggagg aggaaagcga gggggtgggg ggctccccgg gacgataacc tggcagtgga 180
aggaaagaag catggtctac tttaggtgtg cgctgggtct ctggtgctct tcaactgttc 240
ctgtcacctt ttttccitt ttgtaatat tgatgacatc aatgtaacat ttgagatatt 300
tctgaattac tgttgaatg gctaaatca cataaacgtt tgtgtcggaa tgggtgcctc 360
tcttctctt ccttttctc ttattaacg atttaaagt aactttctga acacattgca 420
tgaattctt cctttaacaa aaagcaaagg cgtaggtaaa agctcaaatg aattattct 480
tcggtatgg taaaattgaa ccaatcacag ttaagatgag agatcaacct gagtttaa 539

<210> 330
<211> 471
<212> DNA
<213> Homo sapiens
<400> 330
taaaaaacag caccctatcc tgcttccca catttctgtt cctccaatga agggctaaga 60
ctatttagta atctctttct taagcagagg agtggcaagg atggcaatct tgaatttat 120
tttctgtaga gatagcattt cttctggtgc ggagctgaaa ggaatccacc cagaagtct 180
gtagcatcct gcgtgcagcc tcttgagacc ccagactcca tctgggggag ggactgttt 240
acaagcagtt ctgaccacct tagtgggtga ctgttttcta ggcaaaaaat atctgtctgt 300
tgtactgtat agcctttaa atgcagtcca ggaatgagac tctttaaga aacacatcct 360
gctctgcaa ttccagagag tgctggggga aaaaaaggga taaaattcc tacctactca 420
tcagtgttg aaagatggag ctgaatagct tttctgttc ctggactagg c 471

<210> 331
<211> 559
<212> DNA
<213> Homo sapiens

<220>
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<222> (56)..(59)
<223> n is a, c, g, or t
<220>
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<222> (61)..(66)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (68)..(69)
<223> n is a, c, g, or t
<220>
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<222> (88)..(88)
<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (127)..(127)

<223> n is a, c, g, or t

<400> 331

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nnnnnnngnng ccaagaactc gattcttnat gtgaaagctg aagtacacaa gtccttgga   120
agttacncag caagcttggc caaagccatt gaggccgaag ccaaaatcaa ctatttggg   180
gaggaggctt tgccaggggt ctgtgttaca gcacggactg tccggggggg cggcttcggg   240
ggccgccgag gcagcagaac tctgtgagc cagaggctgc agttgcagag catcgaagaa   300
ggagatgttt tagctgccga gcagagatga gggcctcagg gtgccgtggg gctgcagcct   360
gagaggctgg cccggggagg agttcccatc accgcctgtg ccgcggcctt gggagcatgt   420
cactgtgtac agctggccac acacagggaa ggagcagcat ctggtatgca gccaccagga   480
caaggactga aaataatgtc tacagtccac agcttcagca ttccagaga ccacatgtga   540
gcttcttta ggtccagt                                     559
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<210> 332

<211> 115

<212> DNA

<213> Homo sapiens

<400> 332

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tcccgacggg cagaggagcc tgggtccga ggggacaagg agcctgggtt gccccaccc   60
cgctgaggga gttcctttg cccctaccc ccggggcttg tatatagatt ataaa       115
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<210> 333

<211> 486

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (96)..(96)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (99)..(100)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (106)..(108)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (119)..(119)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (152)..(152)

<223> n is a, c, g, or t

<220>

<221> misc_feature
<222> (175)..(175)
<223> n is a, c, g, or t
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<222> (226)..(226)
<223> n is a, c, g, or t
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<222> (233)..(233)
<223> n is a, c, g, or t
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<222> (237)..(237)
<223> n is a, c, g, or t
<220>
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<222> (248)..(248)
<223> n is a, c, g, or t
<220>
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<222> (250)..(250)
<223> n is a, c, g, or t
<220>
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<222> (252)..(252)
<223> n is a, c, g, or t
<220>
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<222> (263)..(263)
<223> n is a, c, g, or t
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<222> (266)..(266)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (296)..(297)
<223> n is a, c, g, or t
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<222> (302)..(303)
<223> n is a, c, g, or t
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<222> (321)..(321)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (337)..(338)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (341)..(341)

<223> n is a, c, g, or t

<220>

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<222> (351)..(351)

<223> n is a, c, g, or t

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<222> (409)..(409)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (446)..(446)

<223> n is a, c, g, or t

<220>

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<222> (450)..(450)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (455)..(455)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (461)..(461)

<223> n is a, c, g, or t

<400> 333

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tggttttta attttcttct gtttctgatt ttgtngtnn ggggtnnntg tegtgttng 120

tgtgtgtgtg tegtgtgtg tegtgtgtg tntaacagag aatatggcca gtgcnttgag 180

ttctttctcc ttctctctct ctctttttt tnnaaataac tcttcnggga agntggnttt 240

ataagccntn tngccaggtg tanacntgtt gtgaaatacc caccactaaa gtttnnaag 300

tnnccatatt ttctccattg ngccttctta tgtattnnca nagattattc ntgtgcactt 360

taaatttact taacttacca taaatgcagt gtgacttttc ccacacagnt ggattgtgag 420

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gtctct

486

<210> 334

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (191)..(192)

<223> n is a, c, g, or t

<400> 334

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caagggcgcc tcacctgctc tcaagaaac agcgagaggg agaccagggg ggctgaaact  120
tgaactctgg tcttttaaa attaatttg gttggtgttg ggggaggcgc gagtgcgtgt   180
gagaagaacc nccccacccc gcgcaagggg aagcctctg tctcccctt cccgcgtcc   240
gagaaggcgg aaaccacag tgtacctga cttatgaaac ttgaaaccgc ctctggagcc   300
gccattctgc agagtatttg gaaaaagaaa aaagggttta tgctacgtc tctggggtcg   360
gggggattat gtcacgagcg tcaaaactgc tggaaatctc aaaactgtac tgtctttatt  420
ttgtatatat gtatttatat ataaaaagaa acgtctacgt atgcatgcta aat       473
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<210> 335

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (241)..(243)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (247)..(247)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (251)..(253)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (256)..(256)

<223> n is a, c, g, or t

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<222> (259)..(259)

<223> n is a, c, g, or t

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<222> (261)..(264)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (339)..(348)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (352)..(353)

<223> n is a, c, g, or t

<220>
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 <222> (355)..(355)
 <223> n is a, c, g, or t
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 <223> n is a, c, g, or t
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 <222> (359)..(360)
 <223> n is a, c, g, or t
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 <222> (362)..(366)
 <223> n is a, c, g, or t
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 <222> (404)..(404)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (537)..(537)
 <223> n is a, c, g, or t
 <400> 335
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 ggaagattac atttttttc ctttgaaac tgaatgcat aatctcgatc aaaccgatcc 120
 agaataccga agatcggcac aggacagaaa agcgagtcgc aggaggaagg gagatgcagc 180
 cgcacagggg atgattaccc tctaggacc gcggtggcta agtcattgca ggaacggggc 240
 nmgttntct nnnngnacna nnnnggagct catctctttg gggtcacagt tctattttgt 300
 ttgtgagttt gtattattat tattattatt attattatnn nnnnnnnntt tnntntntnn 360
 gnnnnntgag caactcaaag aggcagaaga ggagaatgac tttnccagaa tagaagtgga 420
 gcagtgatca ttattctcgg ctttctcttt ctaatcaaca cttgaaaagc aaagtgtctt 480
 ttcagccttt ccattcttac aaataaaaact caaaaaagcc gtccagctta tcccatnctc 540
 tgattgtctt ctgacttaag gg 562

<210> 336
 <211> 189
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (85)..(85)
 <223> n is a, c, g, or t
 <400> 336
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 atgtcctttt aggctgggca tggtnngctc acgcctgtaa cccagcact ttgggaggcg 120
 gagacgggca gataacctga ggtcaggatt tcgagaccaa cctgacctac atggagaaac 180
 tccgcctct

<210> 337
<211> 523
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (38)..(38)
<223> n is a, c, g, or t
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<222> (47)..(47)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (74)..(74)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (86)..(86)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (109)..(109)
<223> n is a, c, g, or t
<220>
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<222> (434)..(434)
<223> n is a, c, g, or t
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<222> (456)..(456)
<223> n is a, c, g, or t
<400> 337

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tgaggagatt gccatggcga ccgtcacagc gctgcgcngc acagtgnccc ccgctgtcac   60
tgggatcacc ttctgtctg gaggcnaagag tgaggaggag gcgtccatna acctcaatgc   120
cattaacaag tgccccctgc tgaagccctg ggccctgacc ttctctacg gccgagccct   180
gcaggcctct gccctgaagg cctggggcgg gaagaaggag aacctgaagg ctgcgcagga   240
ggagtatgtc aagcgagccc tggccaacag cctgcctgt caaggaaagt acactccgag   300
cggtcaggct ggggctgctg ccagcgagtc cctcttcgtc tctaaccacg cctattaagc   360
ggaggtgttc ccaggctgcc cccaacactc caggccctgc cccctccac tctgaagag   420
gaggccgct cctnggggct ccaggctggc ttgcncgcgc tctttctcc ctcgtgacag   480
tgggtgtggg tgtcgtctgt gaatgctaag tccatcacc ttt                               523
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<210> 338
<211> 493
<212> DNA
<213> Homo sapiens

<220>

<221> miscjfeature

<222> (161)..(161)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (163)..(163)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (165)..(176)

<223> n is a, c, g, or t

<400> 338

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tattgtcatc tgatatacac ataaaacaac tcacattggt ggagttaact aattatcccc   60
atttcattggt ttccagtggc aacttactga cccttggttt tgcctgtgct tgtatgcatg   120
cattttcaag caagtaataa agcagcctca ttaattctg nanannnnnn nnnnnnacat   180
atagactgaa tgctataatc aaatctattg acagtatctg cagttctttc agaattccag   240
ggcaaataat ataacgacct gatattcttc tacaggaata tttcagaca ttatatagca   300
cattactgat ttaatgcttt tacttttatt ttcaaaaaca aattcactaa aaattaacag   360
ctatgattct gaagtcacct ttctcaaacc ttgaaaatga gctctaggat ctctataaac   420
atttctaaca ctttcctgt agttaccata gacagacatc tgtcgttaga cctgtgtggt   480
atttcaaaga act                                     493

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<210> 339

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (61)..(61)

<223> n is a, c, g, or t

<400> 339

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ngccaaatac ctgatggaac taactatggt ggactatgac atggtgcact ttctccttc   120
tcaaattgca gcaggagctt ttgcttagc actgaaaatt ctggataatg gtgaatggac   180
accaactcta caacattacc tgcatatac tgaagaatct cttctccag ttatgcagca   240
cctggctaag aatgtagtca tggtaaatca aggacttaca aagcacatga ctgtcaagaa   300
caagtatgcc acatcgaagc atgctaagat cagcactcta ccacagctga attctgcact   360
agttcaagat ttagccaagg ctgtggcaaa ggtgtaactt gtaaacttga gttggagtac   420
tatatttaca aataaaattg gcaccatgtg ccatctgtac ata                     463

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<210> 340

<211> 262

<212> DNA

<213> Homo sapiens

<400> 340

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taagtgtgaa gaatgcgaga agagcttcaa acagcgctct gacctcttta aacaccacag   60
aatccacact ggggagaagc cctatggatg ttccgtctgt gggaaacgct tcaatcagag   120
tgcaaccctc attaaacacc agagaattca cactggggaa aagccttaca aatgtcttga   180

```

atgtggggaa agatttagac aaagtacaca ccttatccga caccaaagaa ttcataaaaa 240
taaagtgtg tcggctgggc gt 262

<210> 341

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (181)..(181)

<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t
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<223> n is a, c, g, or t
<400> 341
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gtagggtaaa tgcacctgat agcaataact taagcacacc ttataatga ccctatatgg   120
cagatgctcc tgaatgtgtg ttctgagcta gaaaatccgg gagtggccaa tcggagattc   180
ngtttcttat ctataataga catctgagcc cctggcccat cccatgaaac ccaggctgta   240
gagaggattg aggccttaag tttggggtta aatgacagtt gccaggngtc gctcattagg   300
gaaaggggtt aagtgn7nnnt gctnnatnnn ctgcatgatg ttgcaggca gttgtggttt   360
tctgcccag cctgncacca ncggnccat gcggatntgt tgnccancc naacaccncn   420
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<210> 342
<211> 492
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (315)..(315)
<223> n is a, c, g, or t
<220>
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<222> (388)..(388)
<223> n is a, c, g, or t
<400> 342

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caggcaaaa catgctgctg gtgggggttc atggcccaag gacccctgc gaggagatcc 120
tggtaagca cgtgggcagc cggtctaca gcgtgtccta cctgctcaag gacaaggggg 180
agtacacact ggtggtcaaa tgggggggacg agcacatccc aggcagcccc taccgcgttg 240
tggtgccctg agtntggggc ccgtgccagc cggcagcccc caagcctgcc ccgctacca 300
agcagcccg cctnttccc ctcaaccccg gccagggccg ccctggccgc ccgcctgtca 360
ctgcagccgc ccctgccctg tgccgtgntg cgctcacctg cctccccagc cagccgctga 420
cctctcggtt ttcactggg cagagggagc catttggtgg cgctgctgt cttcttgggt 480
tctgggaggg gt 492

<210> 343
<211> 333
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<221> misc_feature
<222> (299)..(299)
<223> n is a, c, g, or t
<400> 343

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gaagagcttt gggaagcaaa ggcagaggcc ctgggggtggg agcaggcttg tttattgga 120
aggaccagaa aactgtaag tgtgaccag atcaagtgtg aggagatgag gctggggata 180
gtcaggggct ggatcaccca gggccttggt ggccccacat agggttttgg gttttattct 240
cagggcaatg ggaagctgtt gcatggttg atgnaagggg agtgacagga tccgatgtnc 300
ctattaaga atttaagagg gtcgggtgcg gtg 333

<210> 344
<211> 514
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, or t
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<222> (316)..(316)
<223> n is a, c, g, or t
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<223> n is a, c, g, or t
<400> 344

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tgccaccnca aaccatcaca gagtctttaa ntgcaantca atnggtcant gctagtcaaa 120
gctatgttct tanaaaancc ccagacagcn tcagagcntc agaaaatcn tgtggagtgg 180

ctgctctgta ccgtgggcat ccggcagcca ggaagtgaga caacataatt ataactttgt 240
tttatgatgc tgcattcatt gtactgttta ggtagacgtg aggacatcat cttatttaga 300
attttccgtt tggcantctc ttttgggtgg gagttatgct ggggggttga aataatgaca 360
aggctgagat ttttatgatg tttaaattgg gcacaatgat ttgacctta ntccccaac 420
ttctttctt ttctactgtt taacatacac aggctattta tacacgtccc cagctcccat 480
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<210> 345
<211> 387
<212> DNA
<213> Homo sapiens

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<221> misc_feature
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<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (309)..(309)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (318)..(318)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (324)..(324)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (357)..(357)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (359)..(359)
<223> n is a, c, g, or t
<400> 345

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cccccgccg tccccctca tcgcccgcg cccaccccca tcgccctgc ccccgccgc 120
ggcctcgct gcgagggggc tccctcacc tcggtgcctc agttcccca gctgtaagac 180
agggacgggg cgccccagt gctgagagga gccggctgtg gagccccgc cgccccccac 240
cctctaggtg gccccctcc gaggaggatc gtttctaag tgcaatacnt tggccccgcg 300
gnttccgnt gccccantc gcgntcacgc aataaccggc ccggccccg tccgcgngng 360
tcccccggtg acctcgggga gcagcac 387

<210> 346

<21> 550
<212> DNA
<213> Homo sapiens
<400> 346

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cctgacagtg cagtgatctc ttctctgcc aatattcaa cataaggagc cccagatggc 120
acaagatcat ctccaattt aacagaccca taactatatt ccctgggtgga agcagttcct 180
cttggtcact agagatttcc aaaccacaaa aacctaaggt ttcttggtta aaggccatgt 240
ttgtgggata tgctgagatg aatatgctgt ggttgaatg tgtccccc aa agtcatatg 300
ttggaaactt gattccatt gcaacagtgt tgagatctgg ggcccaatga gaggtgatta 360
ggccatgagg gcggagtga tggattaatg cagttatctc aagagtgggt ttgttatgaa 420
gggggtgttt ggtcctcttt tctctcttgc ccatgtgatt cctccacca tgttatgat 480
gcaacaagaa ggtcctcacc agatgctggt tccttgatct tgtatttgc agcctccaaa 540
atcgtgagcc 550
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<210> 347
<211> 535
<212> DNA
<213> Homo sapiens

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<222> (256)..(256)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (502)..(502)
<223> n is a, c, g, or t
<400> 347

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tagagatcat ctagtcccat caactcacta tatatatgag gaacctgagg tccagagtgg 60
ggaagtgtct tacccaaggt cacatgggtt cagagaaatt atgtgaatc caataagcct 120
tcccgacat tccaagcctc ttaacctgg catctatgtt gaggatgtca atgtttattt 180
cagcaaagga cgtcatggct ttaaaaaact cctttaagc ctcttggtt tgatgtcacc* 240
ttggtaggct gggcctctg agaggttga agctctaggc attgttctct ttgatccag 300
ggatgctaag tagaaactgc atgagccacc agtgcctggg cacccttaa caccaccaga 360
tgggtgtttt ccccatcca cactggcag ggtgcccct tcctccaat catcactgtg 420
ctccttttt cccggcctac gaggcagctc ctgccactat cttagagcc aataaagaga 480
attaaaaacc tgtgcaccag gnagcatctt ttaaatacac tagccattct ctgac 535
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<210> 348
<211> 517
<212> DNA
<213> Homo sapiens

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<222> (210)..(210)
<223> n is a, c, g, or t
<220>
<221> misc_feature

<222> (481)..(481)

<223> n is a, c, g, or t

<400> 348

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ttcgtggat gcctcctgaa agcatcatgt accggaagtt cactacagag agtgatgtat   60
ggagcttcgg ggtgatctc tgggagatct tcacctatgg aaagcagcca tggttccaac   120
tctcaaacac ggaggtcatt gagtgcatta cccaaggtcg tgttttggag cggccccgag   180
tctgccccaa agaggtgtac gatgtcatgn tggggtgctg gcagagggaa ccacagcagc   240
ggttgaacat caaggagatc tacaaaatcc tccatgcttt ggggaaggcc accccaatct   300
acctggacat tcttggttag tgggtggctgg tggatcatgaa ttcatactct gttgcctcct   360
ctctccctgc ctcatctc cctccacct cacaactcct tccatccttg actgaagcga   420
acatcttcat ataaactcaa gtgcctgcta cacatacaac actgaaaaaa ggaaaaaaa   480
naaagaaaaa aaaaccctgt aaggcagttt ggcaaat                           517
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<210> 349

<211> 459

<212> DNA

<213> Homo sapiens

<220>

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<222> (83)..(83)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (298)..(298)

<223> n is a, c, g, or t

<400> 349

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ccagacctac gtacagaatg tanattagca agattcgcta ggtggtttat gtgcacgtta   120
aagtttaaga agcactgcct gagaatccct tggctctaataa ttattctttt ccacactcag   180
atttgctaata gggtttcacc ttatctcttg actcttggtt gatggcaaca ggaaatagta   240
gcatttcagg aagggtggaa aatataaaaa gcaactccaa cccaagcctc caaaaaanca   300
gcaattttca tttgtgtcc atatatccccc ttctaatacat tgtctcatg caagattttt   360
tttcataaag atgatctgct acataatttt atatcatact ctttctccta acattacatc   420
acaagtatac ttcatgttg ctgctacatt cttcacact                           459
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<210> 350

<211> 485

<212> DNA

<213> Homo sapiens

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<222> (88)..(88)

<223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (288)..(288)
 <223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (349)..(349)
 <223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (380)..(380)
 <223> n is a, c, g, or t

<400> 350

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aacaagggtat tgatcacttc cttggcctg agtgagtcca ggggtgcctag acaagaggta    180
gcagcctgtg gatgtccagc acctttgcag ggaatacagg gcccaatctg gcacatgccc    240
cttttctcc aggccagag caggggctgt tgGcgaaagg ctgtggancca acaagttgac    300
atctgacctg acattgcct atgaacgttt gtcacacttc cgctgtgant tgctgaggta    360
agcaagctgt ggggccttcn caaggcggag caggccagat ccagggctgg ggaacccctt    420
agagagagga agacaataat taacaatagc taacacttac agaggcttat agtcagccct    480
catcc                                         485

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<210> 351

<211> 553

<212> DNA

<213> Homo sapiens

<400> 351

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gtgtgtgtgt gtgtatttg cctggtgggg ggtaaaggc agatagaatg tagttgttta    180
tgagtttata ctttctctt agcataatag atgccctgtt tattttctca gaatgtgaca    240
ataaaattag gaaaggagag gaattcagag gcccatgttg cagttcatgg caaagtttta    300
cccaaattt tccttcagaa acatttagtc atagcaagcc atataaatta ttgtctgcaa    360
ctggtatcag aaaaagaaat cagtaggtgg ggactgtaga cccaatggt gcatctgttt    420
acaatcttct tttccaagg tttaagggt catgaataac atgagggaat ttgggagag    480
ctaccacatc agtactttgg cacgcattaa ctgtccaca ggaaaactag ggttgcttca    540
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<210> 352

<211> 447

<212> DNA

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 <223> n is a, c, g, or t

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<221> misc_feature
 <222> (193)..(193)

<223> n is a, c, g, or t

<220>

<221> misc_jfeature

<222> (297)..(297)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (319)..(319)

<223> n is a, c, g, or t

<400> 352

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attgcctgta tgatcgggta ccgaccttgc ccctggatga aatgggtctg gtccttcttc   120
accccgctgg ttgcatggg catcttcac ttcaacgttg tgtactaaa gccgctgggc   180
tacaanaaca ccnacgtgta cccgtggtgg ggtgaggcca tgggctgggc ctctgtgctg   240
tcctccatgc tgtgcatgcc actgcacctc ctgggctgcc tctcagggc caaggggnacc   300
atggctgagt gctggaagna cctgaccag cccatctggg gcctccacca ctggagtag   360
cgagctcagg atgcagatgt caggggcctg accaccctga cccagtgtc cgagagcagc   420
aaggtcgtcg tggtgagag tgtcatg                                     447
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<210> 353

<211> 538

<212> DNA

<213> Homo sapiens

<400> 353

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gggtactcca gaggtgccac tggtggaagg gtcagcggag cccagtgcc tcttgtgca   180
tagaccttct tctccaccc ccttctgccc ctgggtcccc ggccatccag cggggctgcc   240
agagaacccc agacctgccc ttacagtagt gtacgcccc ctccctcttt cggtggtgt   300
agaatagcca gtagtgtagt gcggtgtgct ttacgtgat ggcgggtggg cagcgggcgg   360
cgggctccgc gcagccgtct gtccttgatc tgcccgcggc ggcccgtgtt gtgtttgtg   420
ctgtgtccac gcgtaaggc gacccccctc cccgtactga ctctctctat aagcgttct   480
cttcgcatag tcacgtagct cccacccac cctcttctg tgtctcagc aagtttta   538
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<210> 354

<211> 556

<212> DNA

<213> Homo sapiens

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<220>

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<222> (109)..(109)

<223> n is a, c, g, or t

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<222> (112)..(112)

<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (169)..(169)

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<223> n is a, c, g, or t

<220>

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<222> (186)..(186)

<223> n is a, c, g, or t

<400> 354

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naggacgtgt cccgggtnga gaagtacacg atctncacaa gnaagcctna cgaccagagg 180

nnangnacgg gcaggtgggc gtcgagggac acggtccgct ctttctgaa gcgcagcaag 240

ctcggccggt acaacgagga ggagcgggct cagcaggagg ccgaggccgc ccagcgcctg 300
 gccgaggaga aggcccaggc cagctccatc cccgtgggca gccgctgtga ggtgcgggcg 360
 gcgggacaat cccctcgccg gggcaccgtc atgtatgtag gtctcacaga ttcaagcct 420
 ggctactgga ttggtgtccg ctatgatgag ccaactggga aaaatgatgg cagtgtgaat 480
 gggaaacgct acttcgaatg ccaggccaag tatggcgcct ttgtcaagcc agcagtcgtg 540
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<210> 355

<211> 497

<212> DNA

<213> Homo sapiens

<400> 355

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 aggaagagga agagtaccg atggagaaag ggcacaggaa gagacatgag aaggagagcg 180
 aagacaagca gctctgggaa ctgaatcagg aaactcaaat cgaataggga actaaaaaac 240
 aaaacaaaaa acaaaaaaaaaa accctattta aatgaaacga gtttaaaaac 300
 atttttaag gagggaggtt tggtttttt gtacaaatg aaaaggacat tatctacctg 360
 ttctgtagct ttctggaatt tacctccct ttctatgtt gctattgtaa ggtctttgta 420
 aaatcttga gttttgtaag cctctttaa tgctgtctt gtggactgtg ggtctggact 480
 aacctgtgg ttgcctg 497

<210> 356

<211> 533

<212> DNA

<213> Homo sapiens

<400> 356

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 cagagagtga tgtatggagc ttgggggtga tctctggga gatcttcacc tatggaaagc 180
 agccatggtt ccaactctca aacacggagg tcattgagt cattaccaa ggtcgtgttt 240
 tggagcggcc ccgagtctgc cccaaagagg tgtacgatgt catgctgggg tgctggcaga 300
 gggaaccaca gcagcgggtg aacatcaagg agatctacaa aatcctccat gctttgggga 360
 aggccacccc aatctacctg gacattctg gctagtgtg gctggtggtc atgaattcat 420
 actctgttgc ctctctctc cctgcctcac atctccctc cacctcaca ctcttccat 480
 ccttgactga agcgaacatc tcatataaa ctcaagtgcc tgctacacat aca 533

<210> 357

<211> 534

<212> DNA

<213> Homo sapiens

<400> 357

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 ttttgcttt tccaagtata accccgtttt cacacgaatg gcccttcac atatttgaag 180
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 gcgatctcgg ctactgcaa cctctgtctc ccagggtcag gaaaatggct ttgtaaagaa 300
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<21 1> 260

<212> DNA

<213> Homo sapiens

<400> 358

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ggcatcagtg gtagtccaa ataaaaatg ggcttgggga tggaaatgggt ggtggttaagt 180
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<210> 359

<21 1> 399

<212> DNA

<213> Homo sapiens

<400> 359

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cccccaactg actgcctgcc ccccgctcg ggccagacca atggctgaga gccacagctg 180
acaaagtctg catgtccgag gacggcccct gactggagc tgggcggcag agctgcagag 240
ctagtgttcg gccctcagag aaggatccag aatcaaaagc tcaagagtga cgtgaggtgg 300
gcaccggccc caagtgcaga gtcaaggcag ggagaggccg gctggagcca ggccccctcg 360
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<21 1> 458

<212> DNA

<213> Homo sapiens

<400> 360

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tctcaaacac ggaggtcatt gagtgcatta ccaaggtcg tgttttgag cgccccgag 180
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ctctcctgc ctacatctc cctccacct cacaactct tccatccttg actgaagcga 420
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<210> 361

<211> 518

<212> DNA

<213> Homo sapiens

<400> 361

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ggggttgacc tctgccgctt gcctgggtat ctgggcctgg ccatggctgt gttcttcatg 180
tgttgatttt attgacccc tggagtgggt ggtctcatct ttccatctc gcctgagagc 240
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caggatgacc aggggccagc cagtgtctga ccaaggtaa ggggcaggtg cagaggtggc 360
agggatggct ccgaagccag aaatgcctta aactgcaacg tcccgccct tccccacccc 420
catcccatcc ccaccccag cccagccca gtcctcctag gagcaggacc cgatgaagcg 480
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<211> 560

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<223> n is a, c, g, or t

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ggcatggtgg ctcatgcctg taatcccagc acnttgggag gtgaggtggg tggatcatct 180
gaggtcagga gttcaagacc agcctggcca acatggagaa actccgtctc tactananat 240
acaanaatna accaggcttg gtggtgtatg cctgtaatcc cagctacttg ggaggctgag 300
gcaggagaat cgcttgatcc caggaaggca gaggtggcag tgagctgaga acgcacaact 360
gcactccagc ctgggtgacg agcaaaactc catctcaaaa caaaagtcc acaaccagcc 420
tggagntgtg tagccctttt gtccanggae nttgactagt caatcagtga cacctggtac 480
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<210> 363

<211> 390

<212> DNA

<213> Homo sapiens

<400> 363

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ttttaagtac atttttatat gtcagttgct gcccttcaca ctaccaggcc ctgcagccac 180
agtgttctgt tggagaaact tggggaagtg tttctgaac cagttctttt tcttggggta 240
gagcgtgaaa tccagacctg ttttgaaag gacagcacag gaggagaaaa gtgactggga 300
cgatgcttcc tctcatcaa aacacatgca gagtcacatc ctatcctag tgttggcag 360
tttgagaccg ctaccctgaa ctaagagct 390

<210> 364

<211> 532

<212> DNA

<213> Homo sapiens

<400> 364

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tgacaggcgg catctccact aagcctgtgt aactgtccc tcttggttt tcttagcttt 180
tgaattgaa gaagtacttt tgaagactcc cattttaaga accgtgcaga ttttgctacc 240

aaaagtcttc accactgtgt tcttaagtga atgtaattt ctgaggtttg ggactttgtg 300
gtgggttttt tcttcttttc ttccattc ttcttcttt cttttatgt tgttgctgt 360
aaatgctgca catccagatt gcatacagg acattggta tttatgctt tcttgatat 420
aacatgac agagtgccat ggccactacc ccactgttg ctctcctgca aatcaactgc 480
tttaattta cacttaaca aattgtttg agtgtagct actgccttc ta 532

<210> 365

<211> 471

<212> DNA

<213> Homo sapiens

<400> 365

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ccagcaactg tgccccgct cagtctttga gcgagcccat ttgtggatt gtgcctatg 180
cgctcatgag cgtctgtgga gccatcctcc ttgtctaat cgtcctgctg ctgctgccgt 240
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gacatcgctg gaaatgaata gccaggcctg acctcaagca accatgaact cagctattaa 360
gaaaatcaca ttccagggc agcagccggg atcgaatgtg gcgctttctc ctgtgcccac 420
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<210> 366

<211> 505

<212> DNA

<213> Homo sapiens

<400> 366

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tgaaattggt ggtaatgcag aagagaatgc tgcagaattt ttgaagcaac ataattcagg 180
tccaaattcc aagcctgtag tgccttcat tctgtgtta actgctctc ctgggagaag 240
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tgcccttcag agtgcaggag ttgtgtcag tatgtctct gcacagctgg gaaccacgat 360
ctacaaggaa ttgaaaaga ggaagatgct atgaaagaaa aaaaaaattc ctaaaactgt 420
ggaatggatc acgtagacat gtaaccagc agcagtttg tctgtgtgc cactgattaa 480
tcagcctatg tgcctgacac tggtc 505

<210> 367

<211> 312

<212> DNA

<213> Homo sapiens

<400> 367

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cttaactcat gccaaactcca ccctacatgg ctgccctgtg cctctgggat aaaccccaag 180
cccctgagct tgtgtttaaa gccgttgccc ttgctcccc agctttgtca gctcaggtct 240
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<210> 368

<211> 501

<212> DNA

<213> Homo sapiens

<400> 368

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atgtatgaac acacatgctt gtcggaacgc ttctcggcg ttgtccctt ggctctcatc  180
tccccattc ctgtgcctac ttgcctgag ttctctacc ccgcagttg ccagccagat  240
.tgggagtcgt ttgttccaa tgggttgagc tgtctttgtc gtggagatct ggaactttgc  300
acatgtcact actggggagg ttgtcctgct ctacttcca cgatgaggcg ccctctttac  360
ctatcctctc aactactact ctcttgaag cactattatt tattctccg ctgtctgcct  420
gcagcagtac tactgtcaac atagtgtaaa tggttctcaa aagcttacca gtgtggactt  480
ggtgttagcc acgctgttta c                               501
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<210> 369

<211> 569

<212> DNA

<213> Homo sapiens

<400> 369

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gggagccagg gactgtccgg gtagccagtt ttggtcctgc cagtcctc cctgatccct  180
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cctctggagg cctgggaacc tggctgcagc ctgggaaggc tggagaggca gacggtggga  480
cccaccagct ctctcccat cccgttctt cctggggcc aggcctacc tgtgtggtgg  540
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<210> 370

<211> 459

<212> DNA

<213> Homo sapiens

<400> 370

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gagtacagtg gctgtggctt tcacaccaac cattccgcac tgcagcatgg ccacccttat  180
tggctgttcc atcaaggta agcttctgcg ctcccttctt cagcgttca agatggacgt  240
gcacattact ccggggaccc atgcctcaga gcatgcagtg aacaagcaac ttgcagataa  300
ggagcgggtg gcagctgccc tggagaacac ccacctcttg gaggttgtga atcagtgcct  360
gtcagccgcg tctgagcct ggcccttgac cctcagcct gcatactggt atcctggtcc  420
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<210> 371

<211> 333

<212> DNA

<213> Homo sapiens

<400> 371

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cctctaccga cggacagggg ccagcttcca gcaggcccag gaggagtttt ccagggcat  180
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cttcagcagc agaaccttc acagagctgc ttcattctgct gccaaggag cctccagg 240
gaattagtc tctctcttc tctccctc agccttctc tcgcctgcct tctgagctgc 300
actttccgtg ggtgccttat gtggtggtg ttg 333

<210> 372

<211> 422

<212> DNA

<213> Homo sapiens

<400> 372

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<211> 439

<212> DNA

<213> Homo sapiens

<400> 373

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aaatgtgtc ttcccgatg gctactacc tgcctctggt ggctgggatt cagatgccac 180
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cagatttctt tgtttcttt taattaaat acaagaagca gctgaggaaa gggagacaag 420
gtattttatt tctgactga 439

<210> 374

<211> 453

<212> DNA

<213> Homo sapiens

<400> 374

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tcccactcca gaagaactgc ggcacgtgct tcgggcagcc tagccacagg ctttgagcgc 180
ctgcattcct gggggctgga ggggtgggtg ccaaaggccc tgagcaaaag ccagagctcc 240
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agtcaggac agaagggaag ggaccacag gaagtcacag tgggtcccag ggatgtgtca 420
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<210> 375

<211> 488

<212> DNA

<213> Homo sapiens

<400> 375

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<210> 376

<21 1> 485

<212> DNA

<213> Homo sapiens

<400> 376

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tccaaatttg tggatattaa atggaaggtt tgctgtttg atctagtgt tccagtga 180
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<210> 377

<21 1> 569

<212> DNA

<213> Homo sapiens

<400> 377

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ttgaatcatt tggataactt cattgtcca tcagtagata tacaagaaca ggttatcgt 180
gtccaaaaac tccaccat tctagaaata ttagtcaatt gcatgcctt cattaaatct 240
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<210> 378

<21 1> 336

<212> DNA

<213> Homo sapiens

<400> 378

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tagaaaccaa gccacggtc ttggccgtga ccctgataat aaatgggctc tctcagaggc 240
gccagccctt ccctcccag cggaggcgt catctctctt ctgtaccact agaggagct 300
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<210> 379

<21 1> 525

<212> DNA

<213> Homo sapiens

<400> 379

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tatgggtagg acagctgcta cagctcgttg acaagaaaaa cagcctggtg gctgaggagg 180
ccgagctcat gatcacggtg caggaattga atctggagga gaaacagtgg cagctggacc 240
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cgagggtggg ccgtctgctt tcgttcccac aaagaaagca cctcaccaca gcacagtgcc 480
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<210> 380

<21 1> 525

<212> DNA

<213> Homo sapiens

<400> 380

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tattttact cgatgccttg gctgagagaa gacctaaaga ctctggggtg atacctgaaa 360
gaatcctgtc tttttggtc tccataatcc ttgaatgga aagtacactg tgagagattg 420
aaccatggag aaatatgaaa accctggatt ctgagtattt gttgggcagg gcgtttagta 480
ctgtctccc ttaccagca aacctgactt caccatgttt attcc 525

<210> 381

<21 1> 520

<212> DNA

<213> Homo sapiens

<400> 381

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gttattagaa aagtggggga tttcttgat ctttattgct gcttaccatt gaaactaac 180
ccagctgtgt tcccacactc tgtctgcgc acgaaacagt atctgtttga ggcataatct 240
taagtggcca cacacaatgt tttctcttat gttatctggc agtaactgta acttgaatta 300
cattagcaca ttctgcttag ctaaaattgt taaaataaac ttaataaac ccatgtagcc 360
ctctcatttg attgacagta ttttagttat tttggcatt cttaaagctg ggcaatgtaa 420
tgatcagatc tttgtttgtc tgaacaggta tttttatata tgctttttgt aaacaaaaa 480
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<210> 382

<21 I> 261

<212> DNA

<213> Homo sapiens

<400> 382

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tgattccact aatagtagga agcaagagac ttaactatga gggacgttat gtgaatctta   180
agtcttacca gtccttgcat tagtacatta aatttggatg ttttggaaac aaattcatat   240
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<210> 383

<21 I> 424

<212> DNA

<213> Homo sapiens

<400> 383

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gctaagcgga gccttcagcc cctctgcggc tttgtatta caacgaagtg aggtcatgct   120
tacaggggac atggggagct tagatgatcc caaatgaag agcatgatgc ctactgatga   180
acagtttga gccatcattg tgcctggctt tgcaactttg tccattttat tgcctttat   240
attacgtac ttctaatga agtaaacca aaaaactag aggtatgaat taatgctaca   300
cattttaata cacacattta ttcagatact ccccttttta aagccctttt gtttttgat   360
ttatatactc tgttttacag atttagctag aaaaaaatg tcagtgtttt ggtgcacctt   420
tttg                                     424
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<210> 384

<21 I> 460

<212> DNA

<213> Homo sapiens

<400> 384

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taagggtgaaa aggggtgtgg caaaggagcc tactccaaga atggaggctg taggaatata   120
acctcccacc ctgcaaaggg aatctcttgc ctgctccatc tcataggcta agtcagctga   180
atcccgatag tactaggtec ccttcctccc gcaccccgtc agctggaaaaa ggcctgtggc   240
ccagaggctt ctcaaaggg aggggtgacat gctggctttt gtgccaaagc tcaccagccc   300
tgcgccacct cactgcagta gtgcaccatc tcatgacagt agcacgccct cctgggcccgt   360
ctggcctgtg gctaattggag gtgacggcac tccatgtgc tgactcccc catccctgcc   420
acgctgtggc cctgcctggc tagtccctgc ctgaataaag                                     460
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<210> 385

<21 I> 434

<212> DNA

<213> Homo sapiens

<400> 385

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aaccaacgca gctcgatgac ttgtacttga tcgccatctg ccacgcggg ggcacagat   120
ccctacgca ccttactccg gacacttgc cgctgctcag gaacatctc caccaggggc   180
aggaggccat cctgcagcgc taccggatga agggagacca tctgcgagta tacctgcact   240
acctgccctc ctactaccac ctgcattgtc acttcaccgc cctgggcttc gagggccccg   300
gctcaggcgt ggagcgggccc cacctgctgg ctgagggtgat cgagaacttg gagtgtgacc   360
ctaggcacta ccagcagcgc acgtcacct tcgccctcag ggctgacgac cccctgctca   420
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agctcttgca ggag

434

<210> 386

<211> 416

<212> DNA

<213> Homo sapiens

<400> 386

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ctgccccaga tcataccccc ttctgectg taacccttac cggctccata tgggggtacaa 120
aggcttgccc tctcacccc aactfgggaa accctctggg gccatcccag ctccagagcc 180
ccttggtggg tcagtgaagac ctattgttg ccacattaca gccagtgcG tctccctgac 240
aagcctgtac ccagccggct cagccacag cactgtccta tgaaccttc tgcacgccat 300
tctccacctc agtatctgtt ttgggggaac ccaacctgcg acagtgttc tgtgtgtttt 360
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<210> 387

<211> 477

<212> DNA

<213> Homo sapiens

<400> 387

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atgctcttgt tctgccgtga ctgttcaggt gtatggtagt aagtaaatgt attaacaagg 120
tgaacagtag taatattcta tcatagagta ttagccctg caagtttca gggcgtctt 180
tccgacttca gttttgtga taaagaatgt gaacagtgt tagatgttct cagtattca 240
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aatacgagag aaaagagagt ggtttccgt tgcagctaca cagctgtgtg catcgacgtt 360
ctctgggggt gtgtgccaag cgaacccag ggggtgaattg gattcttga gagaccaaag 420
cctgtaactg tccagcttct aattcaaaa cgggtccatt agggcttctg tgtgtta 477

<210> 388

<211> 548

<212> DNA

<213> Homo sapiens

<400> 388

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gagagccgct gataggtag gtctcattg gagtgttggt ggaaaggaaa ctgaaggtaa 180
ttgaatagaa tacgcctgca ttaccagcc ccagcaacac aaagaatttt taatcacacg 240
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agtagtacag tggaaactgt taaatgcata acctaattt cctgggactg ccatatttc 360
tttaactgg aaattttat gtgagtttc ctttgggtc atggaactgt ggttgccaag 420
gtatttaaaa gggcttctt gcctccttct ctttgattta ttaatttga ttgggctat 480
aaaatatcat ttccaggtt tattcttta gcaggttag ttaaagacc tccactgaac 540
tgggtttg 548

<210> 389

<211> 492

<212> DNA

<213> Homo sapiens

<400> 389

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aatatgctct gggctggaga aatgaaatcc tcaagccatc aggatttgct atttaagtgg 120
cttgacaact gggccaccaa agaactgaa cttcaccttt taggatttga gctgttctgg 180
aacacattgc tgcactttgg aaagtcaaaa tcaagtgccg gtggcgccct ttccatagag 240
aatttgccca gctttgcttt aaaagatgct ttgttttta tatacacata atcaataggt 300
ccaatctgct ctcaaggcct tggctctggt gggattcctt caccaattac ttaattaaa 360
aatggctgca actgtaagaa cccttgctg atatatattgc aactatgctc ccatttaca 420
atgtaccttc taatgctcag ttgccagggt ccaatgcaaa ggtggcggtg actcccttg 480
tgtgggtggg gt 492

<210> 390
<211> 354
<212> DNA
<213> Homo sapiens
<400> 390

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cgctagattg ttacatagct ccatctctgt tggtttctgct tacagcatat ggtaaccaag 120
gttagatgcc agttaaatt ccttagaaat tggatgagcc ttgagattgc ttctaactg 180
ggacatgaca ttttctagc tcttatcaag aataacaact tccactttt tttaaactgc 240
acttttgact tttttatgg tataaaaaca ataattata aacataaaag ctcatgtgt 300
tttttagact ttgatatta ttgatactg tacaacttt attaatcaa gatg 354

<210> 391
<211> 537
<212> DNA
<213> Homo sapiens
<400> 391

gagccctaga tgttctgga agttggcccc cttatgaaa accacttccc acagccagtg 60
ggaactgccg gaggaagatc tggcgtcaca tggctcccag gaaagtgtg tgcctatcc 120
ccactgatac catctgattc cccgatgcct gtgcctgttc cacctggacg gtggccccct 180
cagcctggca gcctctggac agagaggaag gaaggattgg aaaagtcccc gcagcacagc 240
gacggtggga agatgcctta cgtctgatct tgatgggggc actggcctgg agcctgggcc 300
cacctgcttc tgggggggtg gggagcaggc cagatggagg tgggtgtgcc aggaagaaat 360
ggagcgtatg ctgactgtgg ggtgggcccc ggattccac atcttggtga agttggccct 420
gggaagggca gctgggggca gtggcgccag ttccctcca tggctcccc gctggcaatg 480
tggngaagct gagtttctgt ccaatgagca ggaagattct gagacattc gcctgag 537

<210> 392
<211> 258
<212> DNA
<213> Homo sapiens
<400> 392

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agggggtggc agccccgcgc cgcctccgcc gtggcgccga ccacgatgtg ggctctgagc 120
tgccccctga gggcgtgctg gggcgctgc tgcgtgtgaa acgcctagag accccggcgc 180
cccagggtgc tgcacgcgc ctcttgccac cctgagcact gcccgatcc cgtgcacct 240
gggaccaga agtgcccc 258

<210> 393
<211> 513

<212> DNA

<213> Homo sapiens

<400> 393

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ttccataggc c gatgctctg aaagaagaga cgtggggctc gagagattta aagattttat   60
ttttacaaat cacagctgat agacagcgaa gccttcccca tagagaccgt gtcceaactc   120
gggcctgggg cactgctcgc tgctcccagg aaggggggtgg cgtgacaggc aggaacctgc   180
gaagtccaga gtccaggggt gagcgcacca gcctcagcca gagcagccac gacagccaca   240
gtgtgtgcac tcgatgatgc ggccctgcaa cggaggagga cagtgagacg atgccactgc   300
gccacgctcg cccctgcaca ctacatatg tggcaaccct cccacgaagg acctgccacc   360
atgccatata gggcacacac tcagaaaccc ttccttgaca gctctggaca gggaaaattt   420
ggctccctca tgaaggtaga accagctgct gttgacaccg aggttacatc tgatgtcta   480
ttataatat gttctgcaaa tccaacacac gtt                                     513
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<210> 394

<211> 402

<212> DNA

<213> Homo sapiens

<400> 394

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gcacctcgga gttgcagctg tgacactcat aggttactcc caggagtgtg ctgagcagaa   60
ggcaagctct tgctggatga aacccctcca ggtgggggtg gggagacttg atattcacat   120
ccaacagttt gaaaaggag agctcaattc ccagcgtcac ccatggctt gtgtgcctg   180
ctacgcattg acttggatct ccaggagtcc cctgcacata cttctccat cgtgtcagct   240
gtgtttctct tgattccgtg acacccggtt tattagtcca aaagtgtgac acctttctg   300
ggcaaggaac agcccttta aggagcaaat cacttctgtc acagttatta tgtaatatg   360
aggcaatctg attagcttca cagactgagt ctccacaaca cc                               402
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<210> 395

<211> 518

<212> DNA

<213> Homo sapiens

<400> 395

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agatcgagca ggtgaacgag cgggtcctga acaggctcca tcaggtgcag aggataactc   120
ggaggctgca cgaggaacgg aggttctca tgagagtgtg ggactcctac ggggatgact   180
accgggccag ccagttcacc attgtgtgagg aggatgaggg cagccagggc acggatgccc   240
ccacccaggg caatgcggag aatgagcctc cagagaaaga gacactgtcc ccgccagaa   300
ggactcctgc acccccagaa cccggcagcc cagccccggg tgaggggccc agtgggcgga   360
agaggcggcg agtgccacgg gatggacgcc gagcaggaaa tgcgctgact ccagagctgg   420
ccccggtgca gattaaggtt gaggaagact ttggcttga agcagatgag gccctggatt   480
ccagttgggt ttctcggggt ccagacaaac tgctgcc                                     518
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<210> 396

<211> 444

<212> DNA

<213> Homo sapiens

<400> 396

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cgactccga aggtcaccgg gagcgggttc tcagcctctc ccaagccctg gctactgagg   60
cgtcgagctg gcacagaatg atgacagggt gaaatttga ctcccaggga gaccctcttc   120
ccggtgtgcc gctgcctctc tcggaccca cgcgccagga gaccctccc ccagatctc   180
ccccggtggc taattcgggt tccacggggt tctctgccg agggagtggg cgtggaggag   240
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gtcccccccc ctggggggccc gcgtgggatg ccgggatcgc ccctccggtc ctgccacaag 300
acgaggggggc atggcctctg cgagtcactc tgctacaatc cagcttgtaa tccgccc aaa 360
agcggcagcc aatcggagcg cgaggacgtg gtctggaggt accgccgaag atctgggacc 420
actcagggca tcagggggcg tgggt 444

<210> 397

<211> 414

<212> DNA

<213> Homo sapiens

<400> 397

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ctacccccac tgccccgagt gtcgggcagc gatgtacata tggaggtggg gtggacaggg 120
tgtgtgtccc cttcagaggg agtgcagggc ttgggtggg ctagtctctg ctcctagggc 180
tgtgaatgtt ttcagggtgg ggggagggag atggagcctc ctgtgtgtt ggggggaagg 240
gtgggtgggg cctccactt ggccccgggg ttcagtggta ttataactt gccttcttc 300
tgtacagggc tgggaaaggc tgtgtgaggg gagagaaggg agagggtggg cctgtgtgg 360
acaatggcat actctcttc agccctagga ggagggtcc taacagtga actt 414

<210> 398

<211> 480

<212> DNA

<213> Homo sapiens

<400> 398

tcaagtggga agatacctct ctggccccgg cacatgtcac ccctgcactc ctgccttccc 60
gtgggcactt ccacatcctc tgggcctctg gcagttccca gggactgtt tcacctctgc 120
tgtctctggg gtcagctgct gctcatcagc tgcccgtag catgtggcca ggggtgcagg 180
gtggcggggg gtcagcagca tgtccctggg caggccctgg gcaccctgtc tcccctggc 240
tactgtctga cctgggtctg tccagcctg gattggcctc atccaggatc ttgtgtcacc 300
ccacgtgcc ccatcttgc tgctgttcca gttctgtca agggccttg gggtggccc 360
cccaccaggc cttctagagc agcaccagtc tcagggccct gggaccagct gccctacttc 420
ccaggttgt agccaggaga agggggcatc acagagctga tggccaata aggggggtgt 480

<210> 399

<211> 533

<212> DNA

<213> Homo sapiens

<400> 399

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cccagacttg gagagaccg tctgtgtta atacttccat cctcttctt ccaaagagc 120
agatcccaag gcatttactc ctgggtctg tctcgttta tctgtcgccc ctccagcgc 180
tgagagcctc cctgggtgt cagcagcact gtgtccagg ctctgtctg aacaccgcag 240
cccctcttc gtccttcca gagctcagca tgcacagca aggactgccg cattggtgat 300
ggagggccag ctgaggggaa gttgtggtg agtttcttt tctccattc tagcatatgg 360
acacctggcc tctgttgag cacttaggtg acaggaactt ccgcacctc tgaggccctg 420
gatgattcta attgttagaa attctaattg ttagaatcc ttcctataa tgaatgaatt 480
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<210> 400

<211> 509

<212> DNA

<213> Homo sapiens

<400> 400

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gtagacgggtg cctgcaggcc ctgcagcgac gctgagctgc tcctggccgc atgcaccagc  120
gacttcgtaa ttcacgggat catccatggg gtcacccatg acgtggagct gcaggagtct  180
gtcatcactg tgggtggccgc ccgtgtctc cgccagacac cgccgctgtt ccaggcgggg  240
cgatccgggg accaggggct gacctccatt cgtacccac tgcgctgttg cgtccaccg  300
ggcccaggca cttctctt catgggcttg agccgcttg gggaggcccg gctgggctgt  360
gccccacgat tccaggagt ccgccgtgcc tacgaggctg cccgtgctgc ccacctccac  420
ccctcgagg tggcgctgca ctgaggggct ggggtgctgg gaggggctgg taggaggag  480
ggtgggcccc ctgcttggga ggtgatggg  509

```

<210> 401

<211> 481

<212> DNA

<213> Homo sapiens

<400> 401

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cagtggcttc cagcagagt gacctgggat ttctgtcatg ggtgtccctc tgtactcaga   60
atgggttcag gccaaagtcgg tgaagatgga tgttgcaaa ataggaggat accctcatt  120
gctgaatggg ggacctgtc ttagcctgcc caggggccag gcctgtcca ggttaaactg  180
gacggaaggc ccagggtc tttctttca accaggagag gccgctgcct agagcccctc  240
cccaccttt cctggatggg ttaggcaagc caggagagca agcagtgttg tctcacggg  300
aggaggactg agcgactggg aaaactcggc tctacatctc acccagaacg gcttttagaa  360
acaccacagc tggagagtcc tggctgagcc ttgggagttt cagctctttg gcgggggtgcc  420
caggtgccat gcgatcagcg aagcctgcga gttggcagga ctctgaggtt tctgcagac  480
c 481

```

<210> 402

<211> 481

<212> DNA

<213> Homo sapiens

<400> 402

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cagtggcttc cagcagagt gacctgggat ttctgtcatg ggtgtccctc tgtactcaga   60
atgggttcag gccaaagtcgg tgaagatgga tgttgcaaa ataggaggat accctcatt  120
gctgaatggg ggacctgtc ttagcctgcc caggggccag gcctgtcca ggttaaactg  180
gacggaaggc ccagggtc tttctttca accaggagag gccgctgcct agagcccctc  240
cccaccttt cctggatggg ttaggcaagc caggagagca agcagtgttg tctcacggg  300
aggaggactg agcgactggg aaaactcggc tctacatctc acccagaacg gcttttagaa  360
acaccacagc tggagagtcc tggctgagcc ttgggagttt cagctctttg gcgggggtgcc  420
caggtgccat gcgatcagcg aagcctgcga gttggcagga ctctgaggtt tctgcagac  480
c 481

```

<210> 403

<211> 534

<212> DNA

<213> Homo sapiens

<400> 403

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agcatactat gcagcgttg gaactaggcc acctattaat atggaagaac tggatgaatc   60
ataccagaaa gtaattgaac tcttctctgt atgcactaat gaagacccta aagatcgcc  120
ttctgtgca cacattgtt aagctctgga aacagatgtc tagtgatcat ctcagtgaa  180

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gtgtggcttg cgtaaataac tgtttattcc aaaatattta catagtact atcagtagtt 240
 attagactct aaaattggca tatttgagga ccatagtttc ttgttaacat atggataact 300
 atttctaata tgaaatatgc ttatattggc tataagcact tggaattgta ctgggttttc 360
 tgtaaagtt tagaaactag ctacataagt actttgatac tgctcatgct gacttaaac 420
 actagcagta aaacgctgta aactgtaaca ttaaattgaa tgaccattac ttttattaat 480
 gatctttctt aaatattcta tttttaatg gatctactga cattagcact ttgt 534

<210> 404

<211> 213

<212> DNA

<213> Homo sapiens

<400> 404

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 ccgaggactc ggacgtgttc gaggaggaca cgcacctgtg agcgcagcga ggcgaggcc 180
 gagtgggccc ccaggaccaa gcgaggtgga ccc 213

<210> 405

<211> 406

<212> DNA

<213> Homo sapiens

<400> 405

ccccagtgc cgagctggat cgtgcggacg cctggctcct ccgaaaagcg cacgagacag 60
 ccttctctc ctggttccgc aatggcctcc tggcatcggg catcggggtc atctccttca 120
 tgcagagtga catgggtcgg gaagcagcat atggcttctt cctgctgggc ggcctgtgcg 180
 ttgtgtgggg cagcgctcg tacgccgtgg gcctggcggc gctgcgagga cccatgcagc 240
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 cgtgcgccgt gggcctctac atggggcagc tggagctgga cgtggagctg gtgcccagg 360
 acgacgggac ggcctccgcg gaaggccctg-atgaggcggg tcggcc 406

<210> 406

<211> 432

<212> DNA

<213> Homo sapiens

<400> 406

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 atatccgtgt gtctgtctg tggccaccag gcacagggtt ggctccgggt cagtgtccc 120
 aactgtgcg ggaggtgaca acagagcaaa gcagcgagg ggtcagggag gtggagacac 180
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 aatctttac cacttctggc ctggctccag aactttgtt tagattcctt aaaagtcggt 360
 agctgatgtc aaactcaatt gagcagtagc ttgatccct tggctcgggg gtcgaaggaa 420
 gatggcgctg tt 432

<210> 407

<211> 472

<212> DNA

<213> Homo sapiens

<400> 407

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ctagctataa gcctaattc ataattgtatt tctttttga aactgattg tttagcattt 120
 tgttttcaga agagccattc tttattaagt tttcatagaa aataatgtta aggttagattt 180
 agtttgaatg tttttcata tgaaaaagag gcttttattc tttccatag tttagacatc 240
 actggcgtct tctgagtttt atgagacagg aaactaagtt tactatctgt aaatgtaaac 300
 atatgtccat taagaaacat gtagtttttt tttagaatgt aataaccagcagg tggcttactg 360
 tttttcttaa tctcttttaa aaaaacttta gaagaatctt ttaggaacta atatctcttg 420
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<210> 408

<211> 519

<212> DNA

<213> Homo sapiens

<400> 408

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 ggcttcgacg tgcacatcat ggacgacatg attaagcgtg ccctggactt cagggagagc 120
 aggggaagctg agccccaccc gctgtgggag taccatgcc gcagcctctc cgagccctgg 180
 cagatcctga cctttgactt ccagcagccg gtgccctgc agcccctgtg tgccgagggc 240
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 ctgaccccg agtgcacgt cagcactggc ctctggagc ctgcagacc cgaggggggc 360
 tgctgctgga acccccactg caagcaggcc gtctacttct tcagccctgc ccagatccc 420
 agagcactgc tgggtggccc acggactgtc agctatgcag tggagtcca cccgacaca 480
 ggcgacatca tcatggagtt caggcatgca gataccca 519

<210> 409

<211> 469

<212> DNA

<213> Homo sapiens

<400> 409

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 ggacacctgg ccatcaaac cagtttgcc cagcctggtt gggtagctt gtgggagcca 180
 cttacagct ctgggtccct gttttacat cctgggagca aggcctgca gctccacgag 240
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 caaggctcag catcttgata ttttgacag attcctccca agtctggtc tgggaggtat 360
 gtacctatc caaatgtcc caagataat tcatcctca ggaaatggaa atgaactgc 420
 ttactaatgt gtgattccta gtgtagcca ccggtatgc tgggccta 469

<210> 410

<211> 495

<212> DNA

<213> Homo sapiens

<400> 410

gtccagtccc agaccaatgg agggcccagc cccacacca agggccacc gccgcggagc 60
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 tatgccaggc gcctgggagg agcttgggccc cgacggagcc actctgtgca tgggggggctg 180
 ctgggggcag ggtgccgggg ggtaggaggc agcggcagc ggctggaaga gagtgtggtg 240
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 gggccggcgc ctggcctggg agtccctccc tggttttat tctcagtagc tcaggctccc 360
 ctgtgtactt ggaggggcag ggagcccttt cctcgggtct ggcctccaga ccagggttaag 420
 ggcaggcccc tccaacaggt gctcacagc accgaggcag gggctgcagc caccactgg 480

gagtcttgtt ttat

495

<210> 411

<211> 349

<212> DNA

<213> Homo sapiens

<400> 411

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tccagcgccg cgatgggtgag atcactgttc caagcagggg gacggctcgc gataggacaa 180
agagagcagg acctccagac tctggggacc ctgcagacct tgacaattg cctgactcat 240
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agtcaataa tgaatttctt ctccctctc gcaaccgacc aaaattttg 349

<210> 412

<211> 562

<212> DNA

<213> Homo sapiens

<400> 412

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tctgggactg ctctggccg cgggcgtggc cggcgtgcg ctctgtctgg tccacgtgcg 180
ccgccgtggc cactcccagg atgtgggtc tcgttgcgt gctgggacc cggagccgtc 240
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tccgagctcg tccgtagatt ggaatcggc tgaagatga gacctcaag ggatttatgt 360
catatctgct ccttccatc acgtcggga ggtagcgacg cccctttcc ccccgctaca 420
cactgggcgc gctgggcaga ggcagacct gcttttccc tacccttct cgattctgtc 480
cgtgaaatga attgggtaga gtctctggaa ggtttaagc ccatttcag ttctaacta 540
ctttatcct atttgcac cc 562

<210> 413

<211> 458

<212> DNA

<213> Homo sapiens

<400> 413

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acagagaaag gaatctgtag ttcagcactt gatccatctg tgtgaggaaa agcgtgcaag 120
tatcagtgat gctgccctgt tagacatcat ttatatgcaa ttcatcagc accagaaagt 180
ttgggatgtt tttagatga gtaaaggacc aggtgaagat gttgacctt ttgatatga 240
acaatttaaa aattcgttca agaaaattct tcagagagca ttaaaaaatg tgacagtcag 300
cttcagagaa actgaggaga atgcagtctg gattcgaatt gcctggggaa cacagtacac 360
aaagccaaac cagtacaaac ctacctacgt ggtgtactac tcccagactc cgtacgcctt 420
cacgtcctcc tccatgctga ggcgcaatac accgcttc 458

<210> 414

<211> 560

<212> DNA

<213> Homo sapiens

<400> 414

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tcagcgtgc tttgtggag atcaaaacca ccaagttcac aaagaaggtt cagattgacc 120
 cctacctgga agattctctg tgtcatatct gcagttctca gcctggctct ttcttctgtc 180
 gagatcaggt ctgcttcaaa tacttctgcc ggagctgctg gcactggcgg cacagcatgg 240
 agggcctgcg ccaccacagc cccctgatgc ggaaccagaa gaaccgagat tccagctaga 300
 ggagctggcc ttgcccagtg gcctgtggcg cccaaagctg gcaggtcagg caagcagcct 360
 gcaccaccct gccactggcg accagggagc tggcttccca aggacaaggg aaaattgtag 420
 tcacctttgc acttctgtaa tctgtctttg ttctgcact aattaatgca cattgagttt 480
 tgtcaggttt tgttttcagg ggggtgtacca agggcaagga ccctctggct taccctccaa 540
 gcgactctgt agttttccca 560

<210> 415

<211> 443

<212> DNA

<213> Homo sapiens

<400> 415

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 agaacgccac ccaggaggcc ctgcgcaaag gggacgatgt caaatcagag gagtttggg 120
 cctatctcat cgaccacac acccagcggg aggagccttt caacgaacac tggcaaaccg 180
 tctactcact ctgccatccc tgccacatcc actatgacct cgtgggcaag tacgagacac 240
 tggaaaggga ttctaattac gtctgcagc tggcaggagt gggcagctac ctgaagtcc 300
 ccacctatgc aaagtctacg agaactactg atgaaatgac cacagaattc ttccagaaca 360
 tcagctcaga gcaccaaacg cagctgtacg aagtctacaa actcgatttt ttaatgtca 420
 attactcagt gccaagctac ctg 443

<210> 416

<211> 357

<212> DNA

<213> Homo sapiens

<400> 416

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 atcctttctg ttccatccat tcgtgaggaa gcaagagcaa tgggaatgga agacatccta 120
 cgctgcttca tcaaagaagg caatgtctgaa atgatccgcc agatagaatt catcatcaag 180
 cagctaaatt ccgaagagct accagatggg gttcttgaat ctgatgatga tgaagatgaa 240
 gatgatgaag aggacatga catcatggaa gccgatctgg acaaagacga actgatccag 300
 cccagcttg gagaactctc aggagagaag cttctgacca cagagtacct ggggatc 357

<210> 417

<211> 487

<212> DNA

<213> Homo sapiens

<400> 417

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 aacttcttaa agagcatgct acaaacttac taggctatct ccctaaagga gtatttaaaa 180
 aagaggatga tattgatctg cttgggtgaag agttcaggaa agtatatcaa caaaggagtg 240
 aaatttgta agagaaatga tatcatcaaa attgggtaaa gcatagattt ttgtatgtt 300
 accactagat gtcagcataa cttttgtttt acagctcagt ggcattaggt atccattgtc 360
 tgtttggatt ttgtaaatca tcactgaatt tcataacttg taaacaatta tcagatacaa 420
 attaatttta atcaagctgt tatttttga ctgataattt caaaatccga ttctacaac 480
 actacag 487

<210> 418

<211> 523

<212> DNA

<213> Homo sapiens

<400> 418

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gaatcggaca tgtccaaacc accgtgttac gaagaggcgg tgctgatggc agagccgccg   60
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ttcctgagtc gccgcgacag cgcggagaag caggagcagc cgcctcccag ctacaagccg   180
ctcttcctgg accgggggcta cacctcggcg ctgcacctgc ccagcgcccc tcggcccgcg   240
ccgccctgcc cagccctctg cctgcaggcc gaccgtggcc gccgggtctt cccagctgg   300
accgactcag agctcagcag ccgcgagccc ctggagcacg gagcttggcg tctgccggtc   360
tccatccctt tgttcgggag gactacagcc gtatagaggg gcgcccggcg ccccgggccc   420
caccggcgga ctctggcct gactcggggg cttttaaat gcttccttg actcggggga   480
ggggcggggg gagggaggga tttctatcc cgtttgttac att                    523
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<210> 419

<211> 506

<212> DNA

<213> Homo sapiens

<400> 419

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acacagtta tctacattt atcacatttc ttaaagtgtt aagattctat ggctcatttc   180
tatgtatttt tctacttta caaaaataacc tgaacagta tagattttgt aacacttaat   240
ttgagcagct ttttattac attgaattat ataaagtgca tgttaccta gaaaaattag   300
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tatgtatctt gactgcattt tgtaatatct actgcttat tctaattct gctttaaagt   420
actgaactgg gcatgaaaca ttaaaatatt aatccagaaa ctgtataaac tggatgttgc   480
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<210> 420

<211> 504

<212> DNA

<213> Homo sapiens

<400> 420

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actcggcct ctgggatgga gagcaataca tcatcatctt tggagaattt agcgacggcg   60
cctgtgaacc agatccaaga acaatttct gataattgtg tgggtatttt ctcaaaaaca   120
tctgttctt actgtacaat ggcaaaaaag ctttccatg acatgaatgt taactataaa   180
gtggtggaac tggacctgct tgaatatgga aaccagttcc aagatgctct ttacaaaatg   240
actggtgaaa gaactgttcc aagaatattt gtcaatgta cttttattgg aggtgcaact   300
gacactcata ggcttcacaa agaaggaaaa ttgctccac tagttcatca gtgttattta   360
aaaaaaagta agaggaaaga atttcagtga tgtttatact aataagtttg ctagtacagt   420
gtcagttatt taaagtggta atgcccgata atgtcttta aatgtttgag gatgttttaa   480
atacatgcat tgtcttcacg aaga                    504
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<210> 421

<211> 472

<212> DNA

<213> Homo sapiens

<400> 421

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gcagagagat ttcattgagg ctcatgga gagctacgac aagcacgtca ctacaatgc 120
tgagcgggcc cggctcctcg ccaggaggcg gcggctcctt tccacagcac caccaacttc 180
atcagagagt agctagaaga gaataagta accacaaaat aagactttt gccatcatat 240
ggcaatatt ttagcttta ttgtaaagcc cctatgggtc taatcagcgt tatccgggtt 300
ctgatgtcag aatcctggga acctgaacac taagttttag gccaaaatga gtgaaaactc 360
tttttttc ttcatgatgc acagggaatg cacctattat tgctatatag attgttcctc 420
ctgtaatttc actaactttt tattcatgca ctcaacaa actttactac ta 472

<210> 422

<21 1> 475

<212> DNA

<213> Homo sapiens

<400> 422

atatggccat cgtgtcagca gagagagtct ctgtacacag ccccgatgaac cctgaggagt 60
ggagtcatac acgaagggcg tgtggccatc gtgtcagcag agagagtctc tgtacacagc 120
cccgatgaac ctgaggagtg gattcatatc cgaaggggtg gtggccaggc tgcagagctg 180
cgtgccgttt gtgtccgagc atcacgtgtg gctccagccc ttatttctgc cagtgttagc 240
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atggtagggg cctgcagggg gccattgggg agcacagggc caggctgggg tgaggagagc 420
tcccctgttt tctgtttaat tgatgagcct gggaaaggag tgtgttctgc ctgcc 475

<210> 423

<21 1> 485

<212> DNA

<213> Homo sapiens

<400> 423

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cagcagcagc atttgtgaca gcccaggcg gagaacaccg aacacccagt gaaggtgagg 120
ggatcagcac ggcgcgccca cccacgcacc cagcgcctgg aatgagactc agccacaagg 180
agggtcgaag ctctgacca ggccacagt cggatgcacc ttgaggatgt cacgctcagt 240
gagagacacc agacacagaa ggtacgctg tgatccact tctatgaaat gtccaggaca 300
gaccaatcca cagaatcagg gagaggattc gtgggtgccg ggactgggga gggggacctg 360
ggggtgacta ggtgacataa tggggacagg gctgccttct gggatgatgag aatgttctgg 420
aatcagatgg gatggctgca cggcgtggtg aaggctactga acgccacctc actgtaagac 480
ggtag 485

<210> 424

<21 1> 538

<212> DNA

<213> Homo sapiens

<400> 424

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ccccgggagc ctccctgtct cagaccggtc taagcaagcg gctggaaatg caccactcct 120
cttctacgg ggttgactat aagaggagct accccacgaa ctgctcacg agaagccacc 180
aggccaccac tctcaaaaga aacaacacta actctccaa ttctctcac ctctccagaa 240
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acgcctacaa ctactgaca aggtcggggc tgaagcgtac gccctcgcta aagccggacg 420
tccccccaa accatccttt gctccccctt ccacatccat gaagcccaat gatgcgtgta 480
cataatccca ggggggagggg gtcagggtgc gaaccagcag gcaaggcgag gtgcccgc 538

<210> 425

<21 1> 381

<212> DNA

<213> Homo sapiens

<400> 425

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aacctgac tacgggact ggagcataat gaagtggaaac cgtgagcgca ggcgcctaca 120
aatcgaggac ttcgaggctc gcatcgcgtc gttgccactg ttacaggcag aaaccgaccg 180
gaggacctg cagatgcttc gggagaacct ggaggaggag gccatcatca tgaaggacgt 240
gccccactgg aaggtggggg agtctgtgtt ccacacaacc cgctgggtgc ccccttgat 300
cggggagctg tacgggctgc gcaccacaga ggaggctctc catgccagcc acggcttcat 360
gtggtacacg taggccctgt g 381

<210> 426

<21 1> 457

<212> DNA

<213> Homo sapiens

<400> 426

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ctttgaagag acagccctgg ctgcttctt tctactgc cctggaatgg gtgtgctct 120
taggatgtat cccctcaaac ctacctggtg gttctgtgcc tccccact ctcttctcat 180
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gaaggaaacc tactattage ccccgctcct gcacgccgtg gagcatcagg ccacaGactc 300
tgcacccgac acccaccctt tcttgtgta ctacgtctt ggagtttga actctaccct 360
ggtaggaaag caccgcagca tgtggggaag caagacgtcc tggaatgaag catgtagctc 420
tatgggggga ggggggaggg ctgcctgaaa accatcc 457

<210> 427

<21 1> 478

<212> DNA

<213> Homo sapiens

<400> 427

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ttggacgctt gtttcccca tcattggggc taccaccagg cccccagcca gctgcctcca 180
gctgcccag tccactccag cccagctggt cctgtccttc ctgcacctc atcaatgcc 240
cagaccgccc tggctgtgag atgtgtagca cccagaggcc ctgcacttg gaccccttg 300
ctgcagcttc cacctagcag ccaccagagg ttacaagggg agagtggccc ttcctcaca 360
agtccgacat ctccaggccc cactgaact cgggggacct ctactgactg cttgctggga 420
cagtcaccag ggttgggggg aagggccaca aatgaaacc attaaagacc ctaagag 478

<210> 428

<21 1> 501

<212> DNA

<213> Homo sapiens

<400> 428

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caaagcactg ggattacaag catgagccac tgtgcccagc ctgtccact gacatttctt 180
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taaaatatgg gcttggggat ggaatgggtg gtggttaagt cacagagtgt agttagatcc 360
caactcccat gacctctggc ttcaagtgtg ggtggggcag ggcagatgaa agggcttcag 420
tgggaacctc tgagagcatt ttctgttc ccctatcaac cgccccagt gataacatct 480
gtgaagccag ccattactca a 501

<210> 429

<211> 474

<212> DNA

<213> Homo sapiens

<400> 429

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tttaatgagc ataacttct cagtctcctg ctctcaaatt taggacagag ccgctaagga 120
caaaacaate cctcccgtgc ttatgatgg cagcaggggc tggggagcct ctgagggact 180
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agccttcaag gaatttgttt ttacaactg gaatatgctc ctgtgtgtgt taacagatca 420
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<210> 430

<211> 316

<212> DNA

<213> Homo sapiens

<400> 430

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aggagagctg ggaacggatc ccttaggttc aggaagcttc tgtgcaagct gcgaggatgg 120
cttgggccga aggggtgctc tgcccgcgc gctagctgtg agctgagcaa agccctgggc 180
tcacagcacc ccaaagcct gtggcttcag tcctgcgtct gcaccacca atcaaaagga 240
tcgtttgttt ttgttttaa agaaagggtga gattggcttg gttttcatg agcacatttg 300
atatagctct tttct 316

<210> 431

<211> 482

<212> DNA

<213> Homo sapiens

<400> 431

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gtctcctctc aattcccac cacaccttat aaaattgtaa tcaaagatat ctactctgt 120
cattgttaat ctaagaataa aaactctgac tttaatacgg tttaactaag ttcaacctt 180
ctaattaggt aggcctctag gtattctgca gatcactgct ggtcttgata gccattaata 240
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ttatgccctt ggaatctgta ctgcatcact agcacttggt atgcaataga acacttcgcc 360
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cc 482

<210> 432
 <211> 511
 <212> DNA
 <213> Homo sapiens

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 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (284)..(285)
 <223> n is a, c, g, or t
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tcctgcctt ggnntttctc cctctctcat tctcctctcc ctttctctca ctgaaggctg  120
tgatttgctt tcaatgtgac aacactatga tgtcatttgg aaggatttgc caggacagac  180
tgattctgag tcttgggtgc cgtatgtgta tgcggcagtg ttgtcaggcg atcttgttg  240
aagctctatg ttgccataat taccatcaag tacacactgt tggnncaaaa ggctaacacc  300
tgactttaga aaatgctgat ttgagaacaa aaggaaagggt ctttttcac tgcttaaagt  360
ggggctcactt tgataccttt gcggtcatgt ctgtgtctga tgagtgtaga atctctggat  420
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<210> 433
 <211> 445
 <212> DNA
 <213> Homo sapiens
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gcggcgtgcc atctcggtc ggccttgctg agagcctccg ccttggcttt ctccctgtct  180
ggtttcagtg gctcacgttg gtgtacaca gctagaatag atatatttag agagagagat  240
attttaaga caaagccac aattagctgt ctttaacac cgcagaaccc cctcccagaa  300
gaagagcgat cctcgggacg gtccgggcgg gcaccctcag ccgggctctt tgcagaagca  360
gcaccgctga ctgtgggccc ggccctcaga tgtgtacata tacggctatt tcctatttta  420
ctgttcttca gatttagtac ttgta                               445
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<210> 434

<211> 443

<212> DNA

<213> Hctiao sapiens

<400> 434

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agcttgctcg gtaagtggct tctctgtgaa ttgcctgtaa cacatagtgg cttctccgcc   60
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caattggcag ccctatttca gttttttt tcttctgttt tcttctttc ttttttaaa   180
cagtaaacct taacagatgc gttcagcaga ctggtttgca gtgaatttc atttcttcc   240
ttatcacccc ctgttgtaa aaagcccagc acttgaattg ttattacttt aaatgttctg   300
tatttgtatc tgttttatt agccaattag tgggatttta tgccagtgt taaaatgagc   360
attgatgtac ccattttta aaaaagcaag cacagccttt gcccaaaact gtcaccta   420
cgttgtcat tccagttga gtt                                     443
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<210> 435

<211> 536

<212> DNA

<213> Homo sapiens

<400> 435

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gctggcagaa tcttcgtccg cacggcccca gctggagttg cacttgcggc cgcaagccgc   180
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ttgctgccgt ctgcacacgg tccgcgcgtc gctggaagac ctgggctggg ccgattgggt   300
gctgtcgcca cgggaggtgc aagtgacat gtgcatcggc gcgtgccga gccagtccg   360
ggcggcaaac atgcacgcgc agatcaagac gagcctgcac cgcctgaagc ccgacacggt   420
gccagcgccc tctgcgtgc ccgccagcta caatcccatg gtgctcattc aaaagaccga   480
caccgggggtg tcgtccaga cctatgatga ctgttagcG aaagactgcc actgca   536
```

<210> 436

<211> 464

<212> DNA

<213> Homo sapiens

<400> 436

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tatgaacttg cgtgggctac tgctttagc ttgggtggt ctcgaccgtt tgtggtagca   60
gtagatgaca tcatgttca gaaacctgtt gaggttggt cattgctctt tcttttca   120
caggatatgt ttactcagaa taattatatt caagtcagag tacacagtga agtggcctcc   180
ctgcaggaga agcagcatal aaccaccaat gtcttcatt tcacgttcat gtcggaaaaa   240
gaagtgccat tggttttccc aaaaacatat ggagagtcca tgtgtactt agatgggcag   300
cggcatttca actccatgag tggcccagcg accttgagaa aggactacct tgtggagccc   360
taagaacacc acattgttg aaaactagca ctctaccac agtgacgtgg tatctgatga   420
agacctgatc gagtgtattg atttagtat tgcttcgtgt cctc                                     464
```

<210> 437

<211> 533

<212> DNA

<213> Homo sapiens

<400> 437

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gcgcagcatg gaggactttg tcacttgggt ggactcgtcc aagatcaagc ggcacgtgct   60
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agagtacaat gaggagcgcg atgacttcga tctggaagcc tagcggatct cccactttgc 120
 atggctgtct ttacagatg ggaaaactga ggcctgatgc tggagattct atgaggggtgc 180
 tctcctcaag ggtatcagac ggtcgtaggt tcttaagaat ttgattcatc agtggcaggc 240
 catgcataga gccacgggag gtgcgtcctt gtttccagg aaatgttctt agaacttgga 300
 ctactgatta ttaattgact gtgccttggg aaacagtggg aagtaacttg gtgcagcact 360
 ggggtattgt tggactgggt caattcggtt aactcgaatt ctgtctctg gccgtggta 420
 agctgtgtac agatgatgga gagtttggcc tcaagtttt ataaactgag cgagactagt 480
 gttcaggatc tctcctctg tttaaatgtc aataaatgcc ccaactgctt tgt 533

<210> 438

<211> 502

<212> DNA

<213> Homo sapiens

<400> 438

cccaggagac acgacgagga cgaggaggac acggtgactc ggctggggccc cgacgacacg 60
 ctgccgggccc ccgagctgtc cgcagagccg gacggggcccc tcaacgtcaa cgtcttcacg 120
 tcggcggagg agctggagcg ggcgacgagg ctggaggagc gcgaacggat cctgcgggag 180
 atctggcgca ccgggcagcc ggacctgctg ggcacaggca cgctggggccc cagccccacg 240
 gccacgggca ccttgggccc catgcactat tactgatggg ccccggtccc cgctgcaagg 300
 cgctcgggggt accggacctg cacatgagct cagagctacc ccacaccttc ggactgcctc 360
 ggccGccaca gctccagggt gctactgggc gtggaccgcc acccctgag aggtccctt 420
 cccagtcct gccagaagac cccggggggcg gggagggggc agcatgcagg gtccccactc 480
 cctctctggg gtcatgaag ag 502

<210> 439

<211> 485

<212> DNA

<213> Homo sapiens

<400> 439

ctccccctt gaaactcaag cacagctgcg aggagggcag cgaggaggga cccctctctc 60
 atggtgtct ctttccccg ctatgtcata ggtagtgag gaagcgaagg aagtgaacgc 120
 tgaatgtgac gcatttctga agagctcagc tgtaccggg catagcctgg aagccccaaag 180
 tctgttctga cttgcctgg ctgtctcctt gacccgcctc ctatgcatt gtccttgatg 240
 tccaggctgg gtcatttaaa atagagatgc aatcaggaag gttgggggac ttgggactgt 300
 ggctgaattg agacctgtct gatgtattca tgcagcacc tgagtcacag ccaggtgcc 360
 cggaagcagc ctcttcgcat aggcagtgat ttgcgattac tttaaagctc acctttttc 420
 tccccctc ttgtcgtgc tgcagcata atgatttgt tcttcccta tgggatccat 480
 ctgtt 485

<210> 440

<211> 525

<212> DNA

<213> Homo sapiens

<400> 440

cagcctagcc tcaagtgggt gtgagcggcc tgagtggata cacgtggata gccggccctt 60
 tgccctcctg agccgtgact caggggctgc cctgggcctg ggcattgcct tgcactctc 120
 ctgctatgcc caggtgcgtc gggcacagct gggaaatggc cagaagatag cctgccttgt 180
 gctggccatg gggctgctgg gccccctgga ctggctgggc cccccctc agatcagcct 240
 ctctacatt tcaatttcc tcaagtacac cctctggcca tgctagtcc tggccctcgt 300
 gccctgggca gtgcacatgt tcaagtccca ggaagcacc cccatccact ctctctgact 360

tcttgtgtgc ctcctttcc ttccctccc acaaagccaa cactctgtga ccaccacact 420
ccaggaggca gccccatccc ctccagccc ctaagtaggc cctcccctcc ctaaactctgc 480
ttccgacca cctggtctta gcccacaaaga tgggccttct ctctc 525

<210> 441

<211> 403

<212> DNA

<213> Homo sapiens

<400> 441

cgcaagcccc tgatgggagc agaaaattcg ggacagacca cgtagagggt ggctcccaag 60
caggtgcgga cggcaccagg ccgccaagg catcgctgcc acctgagctc cagccgcca 120
caaactgctg catgagtggc tgcccaact gcgtgtgggt ggagtacgcg gacaggctgc 180
tgcagcactt ccaggacggg ggggagcggg ccctggctgc cctggaggag cacgtggctg 240
atgagaacct caagccttc ctccagatgg agatccggct gcacaccagg tgcggaggct 300
gagccatccc tgctggactc cctaccgcag gacggagtcc aggacgcagc cgcagcctcc 360
ttccttcaca cccctcaca gactcctgt gtccaacggg aat 403

<210> 442

<211> 346

<212> DNA

<213> Homo sapiens

<400> 442

taggggggag atttgaccgg caggcttctg cggagggtg cttctacaac gctgactacc 60
tggcgccccg agcccggtg gcaggtgaac tggcaggcca ggaagaggag gaagccctgg 120
aggggctgga ggtgatgat gtttctcc ggttctcagg gctccactc ttccgggccc 180
tagagccagg gctggtgcag aagttctccc tgcgagactg cagcccacgg ctccagtgaag 240
aactctacca ccgtgccgc ctcagcaacc tggaggggct agggggccgt gccagctgg 300
ctatggctct ctttgagcag gagcaggcca atagcactta gcccgc 346

<210> 443

<211> 378

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (146)..(146)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (220)..(220)

<223> n is a, c, g, or t

<400> 443

ggggagggca gaaagatcac acacaaggct gtcacttcat acttgaggga ttgcacagca 60
gccgggcaga ggcgtcttc acttcccaga tggggcggcg ggcagcagag acgcacctca 120
cttctagac agtgcggcag ccaggnacac ggacacctc acttcccaga cagttgggcg 180
gccaggcaag cgctctcac ttccagatg gggcggtcn cgggaagcgg ggcctctcac 240
ttccagaca ggttgccag gcagaggctc tctcacttc ccagaacaat tctttatgaa 300
tttgataaag gactgaagt ccaactgaaag ctgctagtga tgatctgga atatacaatt 360
tgtccagtag ccagtttg 378

<210> 444

<211> 556

<212> DNA

<213> Homo sapiens

<400> 444

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ctgtgcatgg cacggctcaa gacagtctg aaatacgtgc tgtttcttct gggtagactg   60
gtcatcgcca tgtccttgca gctggaccgc aggggcatgt ggaacatgct ggggccctgc  120
ctctttgcct tcgtgatcat ggcctccatg tgggcttacc gctgcgggca ccggcgccag  180
tgctacccca cctcgtggca gcgctgggccc ttctacctcc tgcccggcgt ctctatggcc  240
tctgtgggca tcgccatcta cacctccatg atgactagcg acaactacta ctacaccac   300
agcatctggc acatcctgct ggccgggagc gcagccttgc tgctgcggcc acctgaccag  360
cccgccgagc cctgggctctg ctgcgagaaa ttcccctgcc actatcagat ctgaagaac  420
gatcgggagg aactgtacgc agtgacgtga cactggcctg gggacagctg ctgctctgat  480
gacctcttca gccaggagct gtatcgaggg ggaggcgcct ggtccagccc tggacagatt  540
gattccagc tgaata      o                               556
```

<210> 445

<211> 499

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (338)..(338)

<223> n is a, c, g, or t

<400> 445

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tgctaagcc tgtctgtgct tcagaggccc ctccagtccc tggtctgtggg gtaactgggg   60
gtatgagctg tggccacagg tgagcaaggc aggggaactgc aatccagccc tggccgctgg  120
aggggccatc tctggccaat gctgctgtgc ctcaaggac tgacaagtta cgtaggggca  180
gaggtcgcca gctagccagt gtctctcca tctggggggc gtctgtccac ttgtcacctt  240
aggttttcac tcattgtca ccttgggggt ttgctctgtg tgtttcatat ccaacggcaa  300
tacttcgagg gggacagagt cctctaata ctccaatnct gcggttttta caaacataaa  360
ggggggagacc ccaagtggag gacctgggc ctggagctcc ctccaaaact ttgtccagca  420
tccagcctgt tccctgggct cactggggag ggagttgtct tcatagcaca cccagagcca  480
gggatccctt tgtagtttt                               499
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<210> 446

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (352)..(352)

<223> n is a, c, g, or t

<400> 446

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agcatctttc aagctccgtt actatggcga tggccatgat gttacaatcc cacttgcttg   60
aataatcaag tgggaagggg aagcagaggg aaatggggcc atgtgaatgc agctgctctg  120
ttctccctac cctgagggaaa aaccaaaggg aagcaacagg aacttctgca actggtttt  180
```


atcggaaaga tcacctgcc tgcagatgct gttgaagggg cacaagaaat tggagctgga 240
gaagattgat gaaagtgcag gtgtgtaagg aaatagaaca gtctgctggg agtcagacct 300
ggaattctga ttccaaactc ttattactt tgggaagtca ctacgctcc cngtagccat 360
ctccagggtg acggaacca gtgtattacc tgctggaacc aaggaaacta acaatgtagg 420
ttactagtga atacccaat ggtttctcca attatgcca tg 462

<210> 447

<211> 361

<212> DNA

<213> Homo sapiens

<400> 447

gtggacctac ctgataaata ccccttcaaa tctccatcta taggattcat gaataaaatt 60
ttccatccca acattgatga agcgtcagga actgtgtgtc tagatgtaat taatcaaact 120
tggacagctc tctatgatct taccaatata ttgagtcct tctgcctca gttattggcc 180
tattctaacc ccatagatcc tctcaatggt gacgtgcag ccatgtacct ccaccgacca 240
gaagaataca agcagaaaat taaagagtac atccagaaat acgccacgga ggaggcgctg 300
aaagaacagg aagagggtac cggggacagc tcatcggaga gctctatgtc tgacttttcc 360
g 361

<210> 448

<211> 527

<212> DNA

<213> Homo sapiens

<400> 448

gatcccgcca ggcatgtgtg tgtgaatgca tgtgcaaagc tctccatcag aagggtggtg 60
tgggccctgc aggtcctacc cctcgccctt gaagctccct cgggctgcgg actctgcctc 120
ctgggtctga gcattagaac caggagaggg gtgtccctgg gcagagccag ggggtgcaaac 180
agcctgcagc catctggcct ttaagtata gtgtgtcgca ttccgggta ggaaggtagc 240
atttcaagt caaagagagg tcaagtcag caaccatct tctccagca cttttgggt 300
aaggaggaca gtttttgta tggtttaggg gaaatttca tgaaatttc accattacca 360
atagattact gatgtcatg gcaagtgatc tgttcttggt attttgttt gttttgttt 420
ggtttttaa tgtaatcacc cattggtcag gccaggact ggtcacatg agctctgcta 480
gccacggccc caacgatgct tccggctctc atggattcca cagcaaa 527

<210> 449

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (93)..(93)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (108)..(108)

<223> n is a, c, g, or t

<220>

<221> miscfeature

<222> (187)..(189)

<223> n is a, c, g, or t

<400> 449

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ttctagtgtt tccccagtta ttgtgacat ccaanccagg atatatgtaa atgcggatat   60
ccatattgca gacatgaaaa aggttatcac aangtagttt ttccaaanct ttttctaca   120
atctggtgtg gttagaaaaa gtaatgtaat aataggaagg gataataccc aaaaaattct   180
tttaannnt gcttcaggca tgttgaaaac acttggtgga tcttcagaaa cctgactaag   240
gccatgtaaa cttatagaga gctgagagta gccagaatct tcataaaata ttccactatc   300
agttcttgat tgccgacgaa tgaatggtg accttcactt tcccagcca tcagtggctg   360
ttgtcactt ctctccatag ctttggaag                                     390
```

<210> 450

<21 1> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (214)..(214)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (224)..(224)

<223> n is a, c, g, or t

<400> 450

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cctaaggcct atcagcttct atcagcccgc agtgccctgcc tgcctggcct gttggccgcc   60
accaacgcgc tgaccaatgg cgtgtgcct gccgtgcaga gcttttctg cttaccctac   120
gggcgtctgg cctaccacct ggctgtgtg ctgggcagtg ctgccaatcc cctggcctgc   180
ttcctggcca tgggtgtgct gtgcaggtcc ttgncagggc tggncggcct ctctctgctg   240
ggcgtgttct gtgggggcta cctgatggcg ctggcagtc tgagcccctg cccggccctg   300
gtgggcacct cggcgggggt cgctctgctg gtgctgtcgt ggggtgctgt tcttgccgtg   360
ttctctacg tgaagggtgc agccagctcc ctgctgcatg gcggggggccg gccggcattg   420
ctggcagccg gcgtggccat ccaggtgggc tctctgctcg gcgctgtgc tatgttcccc   480
ccgaccagca tctatcacgt gtccacagc agaaa                                     515
```

<210> 451

<21 1> 387

<212> DNA

<213> Homo sapiens

<400> 451

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gcagcgtgag ggtgcactca ggggtgtgtt agagcgtctc gtgtgtgcta gacgcacccc   60
tactcgttc tatagaacac agaggacata gaaaccctt aaaacacaca tgggattctc   120
tggtcacagt ttgggttca ggctatgctg ctttgggcag gtggagcacc ccccgaggaa   180
gcctgcaagt ccagggcaca ggctgcctt tggaggagg gctggccat aggtgctgct   240
ggctccccgc caccagctgg gcctcagccc tcacggcatt cctgctgagc accgtggggc   300
accaggggag caggggcgtc agggatcctg ctgccggcac ccctgtgccg ctggcatgag   360
ggccgtgtcc ccactgtgaa ggatgaa                                     387
```

<210> 452

<211> 449

<212> DNA

<213> Homo sapiens

<400> 452

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gtctcttaga aggacactgg tcattggatt taaaggccac ctgggtaatt tatagtgatc   60
taatctcaag aatcttctct taattacatg caaatactct ttatccaaat tagtttgcac   120
tcacaaattc tggagcttag tacttggaca tatattttgg ggggttgatg gttggagggg   180
ctttattca actcagtaca tcttaataag gaattaatgc cccccaactt gccttacaag   240
tcatatatta aaaacaatgt tggcctggca cagtggctca tgcctgtaat ctcaacactt   300
tgggaagcca agggaggagg atcacttgag cccaggagtt ggagaccagc ctggataaca   360
aaggagagacc cagttctac aaaatattta aaaattagcc aggcattgat gtgcatgcct   420
gtggtcctag ctattcaggg aactgaggt                                     449
```

<210> 453

<211> 548

<212> DNA

<213> Homo sapiens

<400> 453

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gccggccctt tgcaatgaat gactcttctt gaggctggca ccaggagccc taggcaggcc   60
gccgtctccc cactcacagc cccagcaggt aagcagtgtg gacaaaccct tggggctttt   120
ttatttggag aaccgtccag catgcatcct ggcccacggc ctgagcaagc tgcagccctt   180
ctgaggccat gggcttcgtt ggctaagttg ggggtcttag ccttgcacgc gttgtgggca   240
tcaaatctac ctccaaaaga cccatcctgg ggagccctct gggccctcgt tgccttttca   300
cttcaaaaacc tctttttctt gggagaggcc ctgaaccctg tgcgggagag ctggtcctcc   360
agccctggca ggccctcagc cagcttccca gcaagacaaa gggcaccctt gtggctttgg   420
gacctaaagt gttgggggtc ccgaggtcac tgaggactgg tacctcggga acgcaagctg   480
tcagtgaac tgtcccaaa gaattcacag gtctcaaaagc aggaacagtg gggttgtgtc   540
tcacctga                                     548
```

<210> 454

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (268)..(268)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (290)..(290)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (295)..(295)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (324)..(325)

<223> n is a, c, g, or t

<400> 454

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ttgtcttcta cgaccagctg aagcaagtga tgaatgcgta cagagtcaag ccggccgtct   60
ttgacctgct cctggctgtt ggcatgtctg cctacctcgg catggcctac gtggctgtcc   120
agggtagcag tgcccaggct cagcacttca gcctcctcta caagaccgtc cagaggctgc   180
tcgtgaaggc caagacacag tgacacagcc acccccacag ccggagcccc cgccgtcca   240
cagtccttgg ggccgagcac gagtgggnag gggaccctct tctcccgten tgccntcggg   300
ttgcccgcct cctccagaga cttnncaagg gcccatcacc actggcctct gggcacttgt   360
gctgagactc tgggaccagc gcagctgcca cttgtcacc atgagagaat ttggggagtg   420
cttgcattgt agccagcagg ctctgtctg ggtgccacgg ggccagcatt ttggaggag   480
cttcttctct tcttcttg acaggtcgtc atgatggatg cactgactga ccgtctgggg   540
ctcaggctgg tgtgggatgc agccggccg                               569

```

<210> 455

<211> 516

<212> DNA

<213> Homo sapiens

<400> 455

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gtaggggtta caattcacat tcttattct gagaatttgg cccagctgt ttgccttga   60
ctccctgacc tccagagcca gggttgtgcc ttattgtccc atctgtgggc ctattctgc   120
caaagctgga ccaaggctaa ctttctaag ctccctaact tgggccagaa accaaagctg   180
agcttttaac ttctccctc tatgacacaa atgaattgag ggtaggagga gggtgcacat   240
aacccttacc ctacctctgc caaaaagtgg gggctgtact ggggactgct cggatgatct   300
ttcttagtgc tacttttctc agctgtccct gtacgcacag gtctaagatc tgactgcctc   360
ctcctttctc tgacctctc ccccttccct ctctcttcca gctaggctag ctggtttgga   420
gtagaatgac aactaattct aatttttatt tattaaatat ttgggggttt gggttttaag   480
ccagaattac ggctagGacc tagcatttca gcagag                               516

```

<210> 456

<211> 334

<212> DNA

<213> Homo sapiens

<400> 456

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aattaagcat ttcttgcct cctttgcttc atcttttcac aacagctgga tagagggatc   60
agaaatgact gtgtcatggt gctcattcac tgcaaactcc cagttgcaag ctcttggct   120
cccccgagg gagcaagaat ctcatagtcc agagacacag agggcctttt agccctaatt   180
accttttga tgggactgca actcatgact atcctgatat tggaagaaag gactttgtta   240
atcttctccc ccatagctct gctgcgtagg tctacatctt actcagaatc actacacatt   300
cctttagtct tctccaagc tccagagcca ttgg                               334

```

<210> 457

<211> 569

<212> DNA

<213> Homo sapiens

<400> 457

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gggcaggttt ggagcccatg ggaccccggt ggtctctgtc caggagcagc agaggaggct   60
gacaggccct gctccctctg ctctgggggt gctggggagc cccagctcac accctccaa   120
tgcttatatg ctgaagctca cagaatgggc ttcttgcttg acagcaagtc aaagaatgag   180
tttaatatca aagtgtaacg ttaatttcca tcccaagcc agcctgcccc ctgccccatt   240

```

tcccatgagc acacttctgg ggaaggaaaa caggctcctg gccttcactc tcagcagagc 300
tttgagatg ccccaggcat gccctgagct ccttctgtgt acctgtccc acttctgagc 360
caccgctgc cctccgcac tgcggcaaa ccagttcct gcctcagcca ggtctcttc 420
cctggttcc agtcacacag agcccagcag ctttctttt cagtccata agggcagcct 480
tgtgtccctg gccacacttc caccgcccag ggtcttctc cccatcttc catccttct 540
gctgagcttc cacagagctc gtttgcaaa 569

<210> 458

<211> 467

<212> DNA

<213> Homo sapiens

<400> 458

tacctcggag ctgatgctgg gcggaaccaa cacactgggtg ctgcacaaca cgtgtgagga 60
ctcgtgctg gccgcacca tcatgctgga cctagcgtg ctgaccgagc tgtgccagcg 120
cgtgagcttc tgcactgaca tggaccccga gccgcagacc ttccaccccg tgcgttcct 180
gctcagcttc ctcttcaagg cgccactagt gccgcccggc agcccgggtg tcaatgcgt 240
tttccgccag cgcagctgca tcgagaacat cctcagggcc tgcgtggggc tcccgccaca 300
gaaccacatg ctcttgaac aaaaatgga gcgcccaggc cccagcctca agcgagttgg 360
acccgtggct gccacctacc ctatgttga caagaaagga ccggtaccg ctgccaccaa 420
tggctgcacc ggtgatgcca atgggcatct gcaagaggag ccccaa 467

<210> 459

<211> 254

<212> DNA

<213> Homo sapiens

<400> 459

attagctata gattccactg gccttaaaca tacaattaag tgtatacatg atatagtgca 60
cacacaaaag ccaccttaa ttattgaaat aacctgtatt cttttggaa atcatttaag 120
tttggattg aagtactata tttttgtgc atcaatgtat tttctatft acaagcctat 180
gtaaaagtga agtgtatctt cagtgaacca tgtgccaatt aagctgtaat aaaaaagtg 240
tctagtctgt caaa 254

<210> 460

<211> 338

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (95)..(95)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (99)..(99)

<223> n is a, c, g, or t

<400> 460

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aaagccattt cccaccaag gacacagtgg atgtnttnc cctgactcca gcagggaag 120
gaatgtagcc gagaggtgt gtgggctggg ctctgggtgcc ctcttcctg gccaggacac 180
ctctctctt gattccctg gcacctgtc tttctgtctg ttacctgtc tcctgcctg 240

cccactctgca tcttttgcag cccactctga cttccatctg ggggctgaga ccacccttgc 300
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<210> 461
<211> 544
<212> DNA
<213> Homo sapiens

<220>
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<223> n is a, c, g, or t
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<221> misc_feature
<222> (182)..(185)
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<221> miscfeature
<222> (401)..(401)
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<221> miscfeature
<222> (504)..(504)
<223> n is a, c, g, or t
<400> 461

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tgctggaacc agttacgact gaagtcagtg tagacctgag ctgggaggga acctgttagt 120
ctccccacct cttccctgaa gagacaggca cccctcnnn miminnnnnn nngagggagt 180
gnnnnntctg ccttgagtcc ccaggggaaa aaaaaaaaaan gatatttatg aaataaatgg 240
taatttgtgt aaataangct ttaaggtcc cagaatatgc aaattggtat taatttattc 300
aaagnnnnnn nrmrmnnnnn acatatattt agagattaac tcatacattt aaagttttt 360
tcattttacg tgagcatcta tattgtacag ggctggggggg ncccttggtc gcgggagaag 420
gcccagagcc ctggaggagc caccaccccg ccggcccctc gaccctcgg ccctcggcc 480
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tccg 544

<210> 462
<211> 238

<212> DNA

<213> Homo sapiens

<400> 462

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gtgcatggaa ctgtggtgc caaggtattt aaaagggctt tcctgcctcc ttctttga   120
ttatttaat ttgattggg ctataaata tcattttca ggttattct ttagcaggt   180
gtagttaac gacctccact gaactgggtt tgacctctgt tgtactgatg tgttgtga   238
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<210> 463

<211> 388

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<222> (26)..(26)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (36)..(36)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (53)..(53)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (215)..(215)

<223> n is a, c, g, or t

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<221> misc_feature

<222> (254)..(275)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (298)..(298)

<223> n is a, c, g, or t

<400> 463

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catatggagg tggggtggac aggggtgctgt gcccttcag agggagtgcg gggcttgggg   120
tgggcctagt cctgctccta gggctgtgaa tgtttcagg gtgggggggag ggagatggag   180
cctcctgtgt gtttgggggg aagggtgggt ggggncctcc cacttgccc cggggttcag   240
tggtatttta tacrinnrinn minnnnnnnn nrmnntggga aaggctgtgt gagggganag   300
aaggagagg gtgggcctgc tgtggacaat ggcatactct ctccagccc taggaggagg   360
gctcctaaca gtgtaactta ttgtgtcc                                     388
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<210> 464

<211> 345

<212> DNA

<213> Homo sapiens

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<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (137)..(137)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (143)..(146)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (148)..(155)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (157)..(157)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (160)..(160)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (162)..(162)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (164)..(164)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (166)..(168)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (170)..(188)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (247)..(248)
<223> n is a, c, g, or t
<400> 464
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gagcccnnnn rmrnmrmnnn nnngcaggcc aggaagagga ggaagccctg gaggggctgg 120
aggtgatgga tgtttntc cgnnnntnnn nnnnnncn cntntnnngn nnnnnnnnn 180
nnnnnimngt gcagaagtc tccctgcgag actgcagccc acggctcagt gaagaactct 240

accaccnntg ccgcctcagc aacctggagg ggctaggggg ccgtgcccag ctggctatgg 300
ctctctttga gcaggagcag gccaatagca cttagccgc ctggg 345

<210> 465
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (92)..(128)
<223> n is a, c, g, or t
<400> 465
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gtttgttttt attgtgtttt ctaaccataa gnnnnnnnnn ironnnnnnnn rnnnnnnnnn 120
nnnnnnnnnac acaaaaaaat ggtcaccgca ggccatacta ccaatgaaat ggtaggtaaa 180
caaatcttct ggtcaagaga aaaaaaaaag aaatagcact ctgcatgctt tgctctacaa 240
gatg 244

<210> 466
<211> 578
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (138)..(138)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (141)..(141)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (145)..(145)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (148)..(148)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (165)..(165)
<223> n is a, c, g, or t
<220>
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<222> (168)..(170)
<223> n is a, c, g, or t
<220>
<221> misc_feature

<222> (377)..(377)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (424)..(451)
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<222> (453)..(453)
<223> n is a, c, g, or t
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<222> (485)..(485)
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<223> n is a, c, g, or t
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<222> (497)..(497)
<223> n is a, c, g, or t
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<222> (517)..(517)
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<223> n is a, c, g, or t
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<221> misc_feature
<222> (528)..(528)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (531)..(531)
<223> n is a, c, g, or t
<400> 466

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ctgggtagct gagcttatat gcccggcac tgaatgagag ctctctttgt aactgtgtga 120
cttgagatct agtttgc nag ntcnggnaa acaatacatg tgtntntnnn ttgtgtttg 180

ctcagcaagc agatgtctga gatgtaagaa gcttttctt tctgtggca ttgattctga 240
 cttagagctg aagtaaagat cactgaaaca tcacgtcaag ttgaagtcac tcataggtct 300
 ttgtccttta ggcaggacag gagagtcatt aagaagcatt tcactgtagc attctatcac 360
 aatatcatct ggaattnttt tctttgccca gaaagcctta acttgccctt agagaatccc 420
 tggnnnnnnnn nnimmmnnnn nnnnnnnnnn ntcaactct tctgctgtgg aagtttgaag 480
 cgacngncna ggcanancca gagaattcc tcaagtngcc tntaggtnc ntgttatctt 540
 atgccccac ccctccctca acaatatgag tgatccag 578

<210> 467

<211> 481

<212> DNA

<213> Homo sapiens

<400> 467

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 ccctcgaggt tgaacctcg gatacatag aaaatgtaaa ggccaagatc caggataagg 120
 aaggaattcc tctgatcag cagagactga tctttgctgg caagcagcta gaagatggac 180
 gtactttgtc tgactacaat attcaaaagg agtctactct tcatctgtg ttgagacttc 240
 gtggtgggtc taagaaaagg aagaagaagt cttacaccac tccaagaag aataagcaca 300
 agagaaagaa ggtaagctg gctgtcctga aatattataa ggtggatgag aatggcaaaa 360
 ttagtgcctc tcgtcgagag tgccctctg atgaatgtgg tgctgggggtg ttatggcaa 420
 gtcacttga cagacattat tgtggcaaat gttgtctgac ttactgttc aacaaaccag 480
 a 481

<210> 468

<211> 452

<212> DNA

<213> Homo sapiens

<400> 468

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 tgcagtgcgt ctgaagtgt aatcagttgt aacaatagca caaatcgaac ttaggatttg 120
 ttcttctct tctgtgttc gattttgat caattcttta atttggaag cctataatac 180
 agttttctat tcttgagat aaaaattaaa tggatcactg atatttagt cattctgctt 240
 ctcatctaaa tattccata ttctgtatta ggagaaaatt accctcccag caccagcccc 300
 cctctcaaac cccaaccca aaaccaagca ttttggaatg agtctcctt agtttcagag 360
 tgtgattgtg ataaccata tactcttcca gtacttgtt tggtttgga ttaatttgac 420
 tgtcatgac agcggaatc tttctttgg tc 452

<210> 469

<211> 515

<212> DNA

<213> Homo sapiens

<400> 469

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 gtggggagcg gtggctgaga aatgtaagg attctggaat acatattcca tggactttcc 120
 ttccctctcc tgettcctt ttctctctc cctaaccttt cgccgaatgg ggcagacaaa 180
 cactgacgtt tctgggtggc cagtgcggct gccaggttcc tgtactactg ccttgtactt 240
 ttcatitttg ctcaccgtgg attttctcat aggaagtttg gtcagagtga attgaatatt 300
 gtaagtacgc cactgggacc cgaggatttc tgggacccc cagttgggag gaggaagtag 360
 tccagccttc caggtgggag tgagaggcaa tgactcgtta cctgccgcc atcaccttg 420
 aggccttccc tggccttgag tagaaaagtc ggggatcggg gcaagagagg ctgagtacgg 480

atgggaaact attgtgcaca agtctttcca gagga

515

<210> 470

<211> 378

<212> DNA

<213> Homo sapiens

<400> 470

ccctggttg cagctgtttt caaagcccc gataatcgct ctttccact ccaagatgcc 60
ctcataaacc aatgtggcaa gactactgga cttctatcaa tggctacteta atcagtcctt 120
attatcccag cttgctgagg ggcagggaga gcgcctcttc ctctgggcag cgctatctag 180
ataggtaagt gggggcgggg aagggtgcat agctgtttta gctgaggac gtggtgccga 240
cgtcccaaaa ctagctagg ctaagtcaag atcaacattc cagggttggg aatgttgat 300
gatgaaacat tcatttttac ctgtggatg ctagtgtgt agagttcact gttgtacaca 360
gtctgttttc tattgtt 378

<210> 471

<211> 511

<212> DNA

<213> Homo sapiens

<400> 471

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tgaaggagtg gggccactgc ttggaatta aagaagagga catagatgaa aatctctgt 120
ttgaacgaa gattttaaag aactcaactt tccagcatcc tcctctgttc taaccacttc 180
agaaatatat gcagctgtga tactttaga ttatattta gcaaaatgtt agcatgtatg 240
acaagacaat gagagtaatt gcttgacaac aacctatgca ccaggatatt aacattaact 300
ttggaacaa aatgtacaa ttaagtaaag tcaacatatg caaatactg tacattgtga 360
acagaagttt aattcatagt aattcactc tctgcattga cttatgagat aattaatgat 420
taaactatta atgataaaaa taatgcattt gtattgttca taatatcatg tgcacttcaa 480
gaaaatggaa tgctactctt ttgtggttta c 511

<210> 472

<211> 215

<212> DNA

<213> Homo sapiens

<400> 472

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cctgcgtcca tctgtgctgt gcgccccaca gtagcgtgc agacgtccct gagaggttct 120
tgaagatgtt tatttatatt gtccttttt actggaagac gtacgcatac tccatcgatg 180
ttgtatttgc agtggctgag gaattctgt acgca 215

<210> 473

<211> 381

<212> DNA

<213> Homo sapiens

<400> 473

ctctcttagc tcagttactc aattcatatg tagtattttt taaaataatt ttatatctgt 60
gtaccacccc atatatttca tattactgtt tcatgtgtac agctttctac ttctttgtaa 120
gaacaccaac caaccaaggt ttaagtgtt aataggcttg agcaccgggt ggcagatgtt 180
ctatgcagtg tggttcaagt ttctttgacc gcacttatat gcattgctaa tatggaattt 240
aagataccat acacagtctc tcatggacct atctctattg tagaattatg acttatgtct 300

tacttggcaa attttctga atgtgacctt ttttgctga ttgctgggt ttgggattaa 360
ctagcattat ttggcacct t 381

<210> 474

<211> 484

<212> DNA

<213> Homo sapiens

<400> 474

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ttttatttt aattggttta gttcttaact gctggccaac tcttacatcc ccagcaaacc 120
atcgggccat tggatTTTT ccattatgtt catcaccctt atatcatgta cctcagatct 180
ctctctctct cctctctctc agttatagag tttctgtct tggactttt tttcttttc 240
ttttctttt ttttttct ttaaaacaag tgtgatgcca tatcaagtcc atgttattct 300
ctcacagtgt actctataag aggtgtgggt gctgtttgg tcaggatgtt agaaagtgt 360
gataagtagc atgatcagtg tatgcgaaaa ggTTTTagg aagtatggca aaaatgttgt 420
attggctatg atggtgacat gatatagtc gctgcctttt aagaggtctt atctgttcag 480
tggt 484

<210> 475

<211> 563

<212> DNA

<213> Homo sapiens

<400> 475

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cctgtagacc ttgacattca gaaagatgtg agctgcttac tgatcatata tgcatacgtt 120
tctttacagc agaggaaacc attgtccaca aaactgatgt tctttgggg tttatgtac 180
agactgtcc aatcatgtgt gtggttctg cgagttgctg atgactccgc attgaagctc 240
tctgagttct ttgattttaa gttgggttta tggaatttt tcaaatttg gaaggcgtgt 300
ggttcttct gccctccctc ccttttga aatatgaaag caaatgttta gaagaattcc 360
ttttgaaaag ctgtgtcgtg ttcctgtga aactgagcag gtgtgtgtg gcgcgctaag 420
tgccacatgc ttgtgttag aggaggaggt ggccctgccg gctccgcgt gctgtgcctg 480
tgatccctac ctgctccccg ctctgttgc cagcagcact cactgcactc cttgtcata 540
tactctgcat cactgtcata etc 563

<210> 476

<211> 295

<212> DNA

<213> Homo sapiens

<400> 476

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tttcccgctc tgaattgac atgaatgata tcaaagcatt ctatcagaag atgtatgta 180
tctcccttgg ccaagccatc ctgatgaaa ccaaaggaga ttatgagaaa atcctggtgg 240
ctctttgtgg aggaaactaa acattccctt gatggtctca agctatgac agaag 295

<210> 477

<211> 360

<212> DNA

<213> Homo sapiens

<400> 477

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gcacattcgg gaccaatata tagtgggtac atcaagtcca tctgacaaaa tggggcagaa 180
gagaaaggac tcagtgtgtg atccggttcc ttttgctcg cccctgtttt ttgtagaatc 240
tcttcattgct tgacatacct accagtatta ttcccgacga cacatataca tatgagaata 300
taccttattt atttttgtgt aggtgtctgc cttcacaaat gtcattgtct actcctagaa 360

<210> 478

<211> 461

<212> DNA

<213> Homo sapiens

<400> 478

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catgccaggc tgcgtccctc cgagcttggg ataaagcaag gggaccttgg cgctctcagc 120
tttcctgcc acatccagct tgtgtccca atgaaatact gagatgctgg gctgtctctc 180
ccttcaggga atgctggggc cccagcctgg ccagacaaga agactgtcag gaagggtcgg 240
agtctgtaaa accagcatc agtttggctt ttccacatt gatcattttt atatgaaata 300
aaaagatcct gcatttatgg ttagttctg agtctgaga ctttctgcg tgatggctat 360
gcctgcaca caggtgttgg tgatggggct gttgagatgc ctgttgaagg tacatcgtt 420
gcaaatgtga gtttctctc ctgtccgtgt ttgttagta c 461

<210> 479

<211> 541

<212> DNA

<213> Homo sapiens

<400> 479

catgtgcaca cagattattt ttggctcca aaactggatt gcaaaagaaa gaggagaaga 60
atatattgtg tgttctcgtt attctttat aagtaaagtt taccagggca tggaccagct 120
tcagccaggg acaaaatccc ctcccaaacc actctccaca gcttttaaa aatacttcta 180
ctcttaacaa ttacctaaagg ctctctaac tgccccaat ctcttaatag ctctagtgc 240
tgctacaatc taagttaggt caccagaggg aagagaacat ggcattaaaa gaatcacatc 300
ttcagaagag aagacactaa tattattacc catatacatg attcagaag atgacataag 360
attctctta aagaggaaat gtcaggaatc aagccactga atccttaaag agaaaagttg 420
aatatgagtc attgtgtctg aaaactgcaa agtgaactta actgagatcc agcaaacagg 480
ttctgtttta gaaaaataat ttactataaa tttagtaaaa tggacttctt attcaaagca 540
t 541

<210> 480

<211> 488

<212> DNA

<213> Homo sapiens

<400> 480

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gccccagcac agcttgacct gaggtgtggt tcacagcggg ggtgtggagc cgaggcctac 180
cccgagaca ccttgacat cctctccca cccggctgca gaggccagag gccccagcc 240
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gagaggtggg ccagtctgtg gatcagagat gcaccaccaa gccaaaggga cctgtgtccg 360
gtattcgata ctgcgacttt ctgcctggag tgtatgactg cacatgactg ggggggtggg 420
aaaggggtcg gctgaccatg ctcatctgct ggtccgtggg acggtgcccc agccagaggc 480

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488

<210> 481
<211> 547
<212> DNA
<213> Homo sapiens

<220>
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<222> (97)..(99)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (135)..(135)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (258)..(258)
<223> n is a, c, g, or t
<400> 481

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tttcaaaaga gcacctgagt catgtgtatt cccggcnnnc ttataaatg acccggtcaa 120
gttggtttca aagtncgaca ggcttgtctg ttactagct gcgtggcctt ggacgggtgg 180
ctgacatctg taaagaatcc tctgtgatg aaactgagga atcgggtggc cgggcaagct 240
gggaagagca aagccagnag ctgcgctgcc tcaataccca caaaagacca ttccagtat 300
acataagcac aggatgtttt tctcaagagg gatgtattta tcaattggac atctgtttat 360
aatataaaca gacatgtgac tgggaacatc ttgctgccaa aagaatccta ggcagtggct 420
cattgtatgt gaggttgaac cagtgaaat tgccaatatt aggtcggctt ttatctaca 480
agaaggagtt tcatgggggt cagcctaaca gttatggaaa ctacagtct tataaaccat 540
tggcatg 547

<210> 482
<211> 451
<212> DNA
<213> Homo sapiens
<400> 482

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aaaactgtca cagtcaaagt gcctcagaag aactcataag aatcatgcaa gcttctccc 180
tcagccattg atggaaagt cagcaagatc agcaacaaaa ccaagaaaaa tgatccttgc 240
gtgctgaata tctgaaaaga gaaattttc ctacaaaatc tcttgggtca agaaagtct 300
agaatttgaa ttgataaaca tgggtgggtg gctgagggtg agagtatatg aggaaccttt 360
taaacgacaa caatactgct agcttcagg atgattttta aaaaatagat tcaaatgtgt 420
tatctctct ctgaaacgct tcctataact c 451

<210> 483
<211> 364
<212> DNA
<213> Homo sapiens
<400> 483

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aatatccatt tatctttgt atatctaaga ctatcctga ttttactat cacacatgaa 120
taaaggcctt tgtatcttc ttctctaataa gttgtatcat actcttctaa aacttgagt 180
gctgtcttaa aagatataag gggaaagata atattgtctg tctctatatt gcttagtaag 240
tattccata gtcaatgatg gtttaatagg taaaccaaacc cctataaacc tgacctcctt 300
tatggttaat actattaagc aagaatgcag tacagaattg gatacagtac ggattgtcc 360
aat 364

<210> 484

<211> 468

<212> DNA

<213> Homo sapiens

<400> 484

ttagcgttca tccgtgtaac ccgtcatca ctggatgaag attctcctgt gctagatgtg 60
caaatgcaag ctatggcctt caaaatagag aatcccactt tctatagcag attgtgtaac 120
aattttaatg ctatttcccc aggggaaaat gaagggttagg atttaacagt catttaaaaa 180
aaaaatttgt ttgacggat gattggatta ttcatttaaa atgattagaa ggcaagtttc 240
tagctagaaa tatgatttta ttgacaaaaa ttgttgaaa ttatgtatgt ttacatatca 300
cctcatggcc tattatatta aaatatggct ataaatatat aaaaagaaaa gataaagatg 360
atctactcag aaatttttat ttttctaagg ttctcatagg aaaagtacat ttaatacagc 420
agtgtcatca gaagataact tgagcaccgt catggcttaa tgtttatt 468

<210> 485

<211> 357

<212> DNA

<213> Homo sapiens

<400> 485

cagggtgtc atcaacatgg atatgacatt tcacaacagt gactagtga atcccttga 60
acgtagtatg tgtctgctct ttgtccatgt gtaatgagg actgcaaagt ccttctgtt 120
gtgattccca ggactttcc tcaagaggaa atctggattt ccacctaccg cttacctgaa 180
atgcaggatc acctacttac tgtattctac attattatat gacatagtat aatgagacaa 240
tatcaaaagt aaacatgtaa tgacaatata tactaacatt ctgtaggag tggtagaga 300
agctgatgcc tcatttctac attctgtcat tagctattat catctaactg ttcagt 357

<210> 486

<211> 436

<212> DNA

<213> Homo sapiens

<400> 486

gagtggacta taaatgtgc ctaaataat ttgcagtaa ctggtattct tgggtttcc 60
tacttaatac acagtaattc agaactgta ttctattatg agtttagcag tctttggag 120
tgaccagcaa cttgatgtt tgcactaaga ttttatttgg aatgcaagag aggttgaaag 180
aggattcagt agtacacata caactaattt attgaacta tatgttgaag acatctacca 240
gtttctccaa atgccttttt taaaactcat cacagaagat tggtgaaaat gctgagtatg 300
acacttttct tcttgcacgc atgtcagcta cataaacagt ttgtacaat gaaaattact 360
aatttgttg acattccatg taaactacg gtcattgtca gcttcattgc atgtaatgta 420
gacctagtcc atcaga 436

<210> 487

<211> 470

<212> DNA

<213> Homo sapiens

<220>

<221> miscfeature

<222> (63)..(63)

<223> n is a, c, g, or t

<220>

<221> miscfeature

<222> (83)..(83)

<223> n is a, c, g, or t

<400> 487

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ttaaactg ttctaacat tcatcttac tagcgagaaa tcttgattt cattttattc 180
tttgaattc tagacactag attgtagttt agccataact gatgttttt aaaaagggat 240
atatcttctt gcacagttgt tcaaaaaaga gacaagtttc agtcctcaat gctgtccttt 300
gttttacagg tacaagttt ctgctcaga caaactatga aaaactgtag actattctca 360
aggtattaac tcgcagaccc tctgggggta ggggctgttt tctaagttac aggcagagtg 420
ggactgagat ggtacagtgt gcacagacag gtactgagct gacagactgg 470
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<210> 488

<211> 446

<212> DNA

<213> Homo sapiens

<400> 488

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ggcttcattt caagagtcac ccagcaatga gagaatcctg cctctgtaga ccaacatcca 60
gtgtgatttt gtgtctgaga ccacacccca gtagcagggt acgcatgac accgagcccc 120
attgattccc agagggtctt agtcctggaa agtcaggcca acaagcaacg ttgcatcat 180
gttatctctt aagtattaaa agttttattt tctaaagttt aaatcatgtt ttcaaaata 240
ttttcaagg tggctgggtc catttaaaaa tcactctttt atatgtgtct tcggttctag 300
acttcagctt ttgaaattg ctaaataaaa ttcaaaaatc tctgcatcct gaggtgatat 360
acttcattt tgaatcaac tgaagagct gtgcattata aaatcagtta gaatagttag 420
aacaattctt atttatgcc acaacc 446
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<210> 489

<211> 549

<212> DNA

<213> Homo sapiens

<400> 489

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cgggtggagg cttgccggag gtagcagtg aagctactac tccagcagca gtgggggtgt 60
cggcctaggt ggtggggtca gtgtgggggg ctctggcttc agtgcaagca gtggccgagg 120
gtctgggggtg ggttttgga gtggcggggg tagcagctcc agcgtcaaat ttgtctccac 180
cacctctcc tcccgaaga gcttcaagag ctaagaacct gctgcaagtc actgcctcc 240
aagtgcagca acccagccca tggagattgc ctcttctagg cagttgtca agccatgttt 300
tatcttttc tggagagtag tctagaccaa gccaatgca gaaccacatt ctttggttcc 360
caggagagcc ccattcccag cccctggct cccgtgccc agttctatat tctgcttcaa 420
atcagccttc aggtttccca cagcatggcc cctgtgaca cgagaaccca aagttttccc 480
aaatctaat catcaaaaca gaatccccac cccaatccca aattttgttt tggttctaac 540
tacctccag 549
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<210> 490

<211> 474

<212> DNA

<213> Homo sapiens

<400> 490

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gaggggaaggt gattggtagt gagttaaag aaaaagagag gaaaagagag tagttttgtc   60
ttcaagtaaa atgtctggtt gtgccagaca ttcacaagt gtgaaaggag ataggagaag   120
ctcaactga gggcgtgtag taagtgttag aaggctcgag gggacgtgga cttattgcc   180
ttggtttgca atacctgcaa ataatgagtt tgaaaagaaa caatgaaatg tgttaaaaat   240
ttgaccatat tagataaatt ttggtggatt tagtcataag atggaaaaag actggtgaat   300
cttttattac aaaatgtttc tgttaaaatg ggatcatcat ctttgaaagg ggggaggagg   360
agtaaaagcc cgattataat ggtgatcaat tcaagtcagt gttgactatt ctgtgaaata   420
tatttgcca gtggaaatga taatcagaaa agactgtaaa tagatccatc caaa       474
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<210> 491

<211> 378

<212> DNA

<213> Homo sapiens

<400> 491

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agaacatggt aagcctggta tttttaatc aaacaaaata tttatgaaat gggttttctc   60
ttaattctgg attcacatg gctttctaataccaattgta atatttaca tttcaccaa   120
aacttagaat ttgcaaatg caggaattct gccagtgttt ctttgctaag ccttgcattgc   180
aaaatttgaa attttaacat tggcacccaa aacctacatg gaatgtatgt ctggagtatt   240
tcaaacttta cattgaaaca taatttcctt ggaaaacaaa ccataagcct gaggagggtt   300
ttatcaactg gaatgcttta tattagtttg ttttcaactg tacattctc attttacatt   360
catttaacct gccgatta                               378
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<210> 492

<211> 542

<212> DNA

<213> Homo sapiens

<400> 492

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gaaaaagcac ctgaattctc aatgcagggt ctaaaagctg gtgttattgc tgttattgtg   60
gttgtggtga tagcagttgt tgctggaatt gttgtgctgg ttattccag aaagaagaga   120
atggcaaatg atgagaaggc tgagataaag gagatgggtg agatgcatag ggaactcaat   180
gcataactat ataattgaa gattatagaa gaagggaat agcaaatgga cacaattac   240
aaatgtgtgt gctgtggacg aagacatctt tgaagggtcat gagtttgta gtttaacatc   300
atatatttgt aatagtgaac cctgtactca aatatagaac agcttgaac tggtttacc   360
aatcttgaac ttgaccaca agtgtcttat atatgcagat ctaatgtaaa atccagaact   420
tggactccat cgttaaaatt atttatgtgt aacattcaaa tgtgtgcatt aaatatgctt   480
ccacagtaaa atctgaaaaa ctgatttgtg attgaaagct gcctttctat ttacttgagt   540
ct                               542
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<210> 493

<211> 456

<212> DNA

<213> Homo sapiens

<400> 493

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tcagcagtat agggaccttc cgcacaagct ctgtgttaag attgacaata atagtggggc   60
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cattttcatt ttagtctttt ctaagagtca accacaggca ttaagtcag ccaaagaata 120
 ttgttacctt aaagcactat tttattata gatatactta gtgcatctac atctctatac 180
 tgtacactca cccataattc aaacaattac accatggtat aaagtgggca ttaatatgt 240
 aaagattcaa agtttgtctt tattactata tgtaaattag acattaatcc actaaactgg 300
 tcttcttcaa gagagctaag tatacactat ctggtgaaac ttggattctt tcctataaaa 360
 gtgggaccaa gcaatgatga tcttctgtgg tgcttaagga aacttactag agctccacta 420
 acagtctcat aaggaggcag ccatcataac cattga 456

<210> 494

<211> 513

<212> DNA

<213> Homo sapiens

<400> 494

atgctggtt ctgtagggta ttttaattt tgtcagaaat ttagattgt gaatatttg 60
 taaaaaacag taagcaaat tttcagaat tcccaaatg aaccagatac cccctagaaa 120
 attatactat tgagaaatct atggggagga tatgagaaaa taaattcctt ctaaaccaca 180
 ttggaactga cctgaagaag caaactcgga aatatataa acatccctga attcaggcat 240
 tcacaagatg cagaacaaaa tggataaaag gtatttact ggagaagttt taatttctaa 300
 gtaaaattta aatcctaaca ctactaat ttataactaa aatttctcat cttcgtactt 360
 gatgctcaca gaggaagaaa atgatgatgg ttttattcc tggcatccag agtgacagtg 420
 aactaagca aattaccctc ctacccaatt ctatggaata tttatacgt ctcctgttt 480
 aaaatctgac tgccttactt tgatgtatca tat 513

<210> 495

<211> 492

<212> DNA

<213> Homo sapiens

<400> 495

tcctgtctat cacaatcagc ctctgaacce cgcgcccagc agagaccac actaccagga 60
 cccccacagc actgcagtgg gcaaccccgga gtatctcaac actgtccagc ccactgtgt 120
 caacagcaca ttcgacagcc ctgcccactg ggcccagaaa ggcagccacc aaattagcct 180
 ggacaacctt gactaccagc aggacttctt tccaaggaa gccaagccaa atggcatctt 240
 taagggtcc acagctgaaa atgcagaata cctaagggtc gcgccacaaa gcagtgaatt 300
 tattggagca tgaccacgga ggatagtatg agccctaaaa atccagactc ttcgatacc 360
 caggaccaag ccacagcagg tcctccatcc caacagccat gccgcatta gctcttagac 420
 ccacagactg gtttgcaac gtttacaccg actagccagg aagtacttcc acctcgggca 480
 cattttggga ag 492

<210> 496

<211> 536

<212> DNA

<213> Homo sapiens

<400> 496

ctcaaagagt atatgttccc tccaggtcag ctgcccccaa acccctctt tacgctttgt 60
 cacacaaaaa gtgtctctgc cttagtcat ctattcaagc acttacagct ctggccacaa 120
 cagggcattt tacagggtgcg aatgacagta gcattatgag tagtgtgaat tcaggtagta 180
 aatatgaaac taggggttga aattgataat gctttcacia catttgcaga tgtttagaa 240
 ggaaaaaagt tccttcttaa aataatttct ctacaattgg aagattggaa gattcagcta 300
 gttaggagcc catttttcc taatctgtgt gtgccctgta acctgactgg ttaacagcag 360
 tcctttgtaa acagtgtttt aaactctctt agtcaatc caccatcc aattatcaa 420

ggaagaaatg gttcagaaaa tattttcagc ctacagttat gttcagtcac acacacatac 480
 aaaatgttcc ttttgccttt aaagtaattt ttgactccca gatcagtcag agcccc 536

<210> 497

<211> 555

<212> DNA

<213> Homo sapiens

<400> 497

aagttaactct catcagtcgt tcatggtcac aacctgaggt actctgctga gtgggcaagg 60
 ctgaagtaag aggcctgtgg aatgcagcat tacctgctgg acagagcagg gcaggcagtt 120
 ctatgccttg gagctcctga ctgcagggac tctgtcccca cactcagaaa gactcagctc 180
 actcaatgag agaatgtgat ttactttata gaacgtataa tcaactttgt tgaataattt 240
 gttctattaa ggctgtctaa aatgtgatgt ctcatcata gtatgaagtg ttgaaaatta 300
 ataacgagcc tagtttagga aaaagctgct taaaactgtg gctctaagag agtaatcata 360
 aaatacctta gataaaattg cactatggaa ttctattga gtatgtttaa attattggct 420
 tgtctactaa tacatctgct tcaaaatgaa catatttcat aaaattggca tcaattttaa 480
 tgacgtcctt ggtaggaac ctcatagata ccctattgga gacaatcctt tgatcataaa 540
 ttctcccaaa ctata 555

<210> 498

<211> 507

<212> DNA

<213> Homo sapiens

<400> 498

gcagaacact gcagtcagat cctgttactt gcttcagtgg accgaaatct gtattctgtt 60
 tgcgtacttg taatatgtat attaagaagc aataactatt ttctctcatt aatagctgcc 120
 ttcaaggact gttcagtggt gactcagaat gtgaaaaagg aataaaaaat actgttgggc 180
 tcaaactaaa ttcaaagaag tactttattg caactctttt aagtgccttg gatgagaagt 240
 gtcttaaat ttcttcttt gaagctttag gcagagccat aatggactaa aacattttga 300
 ctaagttttt ataccagctt aatagctgta gtttccctg cactgtgtca tctttcaag 360
 gcatttgctt ttgtaatat ttccataaat ttggactgtc tatatcataa ctatactga 420
 tagtttggtc ataagtgtc aatagctga agccaagaa gttggtatcg aaatttggtg 480
 ttgtttaaa cccaagtgtc gcacaaa 507

<210> 499

<211> 213

<212> DNA

<213> Homo sapiens

<400> 499

acttttgtat cttttatcct gggagcactg cgttttcta gctgtgttat tcctggttta 60
 attcagcaga gaaggttaagg tgtgaacctt cctgccttgg agaggcccag gtcccaaate 120
 tcttcaaat cttcacatgt ttaactttaa ggattgaac catgaagtca taggttacag 180
 acctcagttt tatgccccat tggattactt ttt 213

<210> 500

<211> 173

<212> DNA

<213> Homo sapiens

<400> 500

ttcttttga ggcatgcaca tctggaatta aggtcaaaact aattctcaca tccctctaaa 60

agtaaactac tgtaggaac agcagtgtc tcacagtgtg gggcagccgt ctttctaag 120
aagacaatga tattgacact gtccctctt ggcaaggta ttagtaact tga 173

<210> 501

<211> 531

<212> DNA

<213> Homo sapiens

<400> 501

ctgttagctc ctactgtgg taaatgccac acacctttaa gtagataagc agacgatagt 60
tatctgttct ttgacttaa tctcatttgg ttgatttc cttctactaa ggcttctcta 120
ccttcttcag gctgcctaag acatgtaagc gaaacacttc aataattgtc catgaggaga 180
aaaaaagcat tgcacatcat gaaggaaact gaactgagg tggcctcctt gcttgttaca 240
tacctgggta tgttaggca gtttagtga tcttgcctc tcagtgtaaa cctgtataac 300
cctgttaca agctgtgtg ttgctcttg tgaaggccat gatatttctg ttttccca 360
attaattgct attgtgtat ttactaact tctctgtga ttttcttg cattgacatt 420
atagacattg aggacatcat ccaacaatt taaaaatgag tgtgaagggg gaacaagtca 480
aaatattttt aaaagatctt caaaaataat gcctctgtct agcatgccaa c 531

<210> 502

<211> 511

<212> DNA

<213> Homo sapiens

<400> 502

aagagaatgt tctactcac acttcagctg ggtcacatcc atccctccat tcactcttc 60
atccatctt ccatcatta cctccatcca tcttccaac atataattat tgagtaccta 120
ctgtgtgcca ggggctggg ggacagtgtg gacatagtct ctgccctcat agagttgatt 180
gtctagttag gaagacaagc atttttaaaa aataaattta aacttacaaa ctttgttgt 240
cacaagtggg gtttattgca ataaccgctt ggtttgcaac ctcttgctc aacagaacat 300
atgttgcaag accctccat gggggcactt gagtttggc aaggctgaca gagctctggg 360
ttgtgcacat ttcttgcat tccagctgtc actctgtgcc ttctacaac tgattgcaac 420
agactgttga gttatgataa caccagtggg aattgctgga ggaaccagag gcacttccac 480
cttggtggg aagactatgg tgctgccttg c 511

<210> 503

<211> 324

<212> DNA

<213> Homo sapiens

<400> 503

gtatgacaac ccgggatcgt ttgcaagtaa ctgaatccat tgcgacattg tgaaggctta 60
aatgagtta gatgggaaat agcgttgta tcgccttggg tttaaattat ttgatgagtt 120
ccactgtat catggcctac ccgaggagaa gaggagttt ttaactgggc ctatgtagta 180
gcctcattta ccacgtttg tattactgac cacatatgct tgcactggg aaagaagcct 240
gtttcagctg cctgaacgca gtttgatgt ctttgaggac agacattgcc cggaactca 300
gtctatttat tctcagctt gcc 324

<210> 504

<211> 122

<212> DNA

<213> Homo sapiens

<400> 504

cttgccttt gtacacaagt tcccagggtg agcagcttt ggatttaata tgaacatgta 60
cagcgtgcat agggactctt gccttaagga gtgtaaactt gatctgcatt tgctgatttg 120
tt 122

<210> 505

<211> 444

<212> DNA

<213> Homo sapiens

<400> 505

gaagccctgg aaaatgcct gagatacaga tgaagattag aaatcgcgac acattttag 60
tcattgtatc acggattaca atgaacgcag tgcagagccc caaagctcag gctattgta 120
aatcaataat gttgtgaagt aaaacaatca gtactgagaa acctggttg ccacagaaca 180
aagacaagaa gtatacacta acttgtataa atttatctag gaaaaaaatc ctcagaatt 240
ctaagatgaa ttaccagggt gagaatgaat aagctatgca aggtatttg taatatactg 300
tggacacaac ttgctctgc ctcatcctgc cttagtgtgc aatctcatt gactatacga 360
taaagtttgc acagtcttac ttctgtagaa cactggccat aggaaatgct gttttttgt 420
actggacttt acctgatata atgt 444

<210> 506

<211> 212

<212> DNA

<213> Homo sapiens

<400> 506

cattcctagc cgagtgtgac acagtggagc agaacatctg ccaggagact gagcggctgc 60
agtctacaaa ctttgcctg gccgagttag gtgtagcaga aaaaggctgt gctgccctga 120
agaatggcgc caccagctct gccgtctctg gatcggaatt tacctgattt ctcagggt 180
gctgggggca actggccatt tgccaattt cc 212

<210> 507

<211> 433

<212> DNA

<213> Homo sapiens

<400> 507

gccagcgtc tgacatgcag aaggtgaccc tgggcctgct tgtgttctg gcaggcttc 60
ctgtcctgga cgcaatgac ctagaagata aaaacagtcc ttctactat gactggcaca 120
gcctccagggt tggcgggctc atctgcgtg gggttctgtg cgccatgggc atcatcatg 180
tcatgagtgc aaatgcaaa tgcaagttg gccagaagtc cggtcacat ccaggggaga 240
ctccacctct catcacccca ggctcagccc aaagctgatg aggacagacc agctgaaatt 300
gggtggagga ccgttctctg tcccaggtc ctgtctctgc acagaaact gaactccagg 360
atggaattct tctctctctg ctgggactcc ttgcatggc agggcctcat ctcaccttc 420
gcaagagggt etc 433

<210> 508

<211> 442

<212> DNA

<213> Homo sapiens

<400> 508

ctcagcgagc actgagctgg ccctacttcc aggatggatg catcacactc aaggacagga 60
gcctgtcct tccctgatgg cctttggacc cagggcctga cttagccac tccttcttc 120
aggactctgc gggaggctgg ggccccatct tgatcttga gccattctt ctgggtgtgc 180

ttttgggac catcactgag agtcaggagt ttactgcct gtagcaatgg ccagagcctc 240
 tggcccctca cccaccatgg accagcccat tggccgagct cctggggagc tcctgggacc 300
 cttggctatg aaaatgagcc ctggctccca cctgtttctg gaagactgct cccggcccgc 360
 ctgcccagac tgatgagcac atctctctgc cctctccctg tgttctgggc tggggccacc 420
 tttgtgcagc ttcgaggaca gg 442

<210> 509

<211> 536

<212> DNA

<213> Homo sapiens

<400> 509

aatctgaaga ttaaccattt tttgtctta gaatatcaaa aagaaaaaga aaaaggtgtt 60
 ctagtgttt gcatcaaagg aaaaaaagat ttattatcaa ggggcaatat tttatcttt 120
 tccaaataa atttgtaat gatacattac aaaaatagat tgacatcagc ctgattagta 180
 taaattttgt tgtaattaa tccattcctg gcataaaaag tctttatcaa aaaaaattgt 240
 agatgcttgc tttttgttt ttcaatcatg gccatattat gaaaatacta acaggatata 300
 ggacaagggtg taaattttt tattattatt ttaaagatat gatttatcct gagtgtctga 360
 tctattactc tttactttg gttcctgttg tgctcttgta aaagaaaaat ataatttcct 420
 gaagaataaa atagatatat ggcacttga gtgcatcata gttctacagt ttgttttgt 480
 ttcttcaaa aaagctgtaa gagaattatc tgcaactga ttctggcag gaaata 536

<210> 510

<211> 325

<212> DNA

<213> Homo sapiens

<400> 510

atatgtattc attcacttcc aagatttgtt ttggtgtcaa aataacatga aaaggtagat 60
 ggagttgctt ctgttgaatt agctctgcca ccaatatgta tctcatata cgtttggaaa 120
 tgtttcctgc agcattaggt atgacttgtt ctgagtactg ctccgggtgc taaatgaac 180
 aaagaatttg tacttaattg catggactct ggagaatcta tgcgaatcaa ctttctacc 240
 ttaatatctc cccaaaaatg tatagtgcct tgttttatg tacagtttat atacagaaaa 300
 gtttgctctg catttttgat gatgg 325

<210> 511

<211> 555

<212> DNA

<213> Homo sapiens

<400> 511

tgggaggccc tgtaagagcc tgggtgaaatg ggagagtgg aataaaatgg tctgtgagca 60
 gaagctcctg aaggagagagg gccccaagac ctctgtggacc agagaactga ccaacgatgg 120
 ggaactgac ctgaccatga cggcggatga cgttgtgtgc accagggtct acgtccgaga 180
 gtgagtggcc acaggtagaa ccgcggccga agcccaccac tggccatgct caccgccctg 240
 ctctactgcc cctctcgtcc caccctctcc ttctaggata gcgtccctt tacccagtc 300
 actctgggg gtcactggga tgctcttgc aggtcttgc ttctttgac ctctctctc 360
 ctcccctaca ccaacaaaga ggaatggctg caagagccca gatcacccat tccgggttca 420
 ctcccgcct ccccaagtca gcagtcttag ccccaaacca gccagagca gggctctct 480
 aaaggggact tgagggcctg agcaggaaag actggccctc tagcttctac ctttgtccc 540
 tgtagcctat acagt 555

<210> 512

<211> 513

<212> DNA

<213> Homo sapiens

<400> 512

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ttccttgttt tggcttcttt tcagaatgcc gggagagtac atgcagggat tccatctaata 60
caccctcagc actctttctc tggctctgct ggatagattt agatttcctt tcttttttta 120
gggcctcagt ctgtatctc ctttgggtggc taccaccact cactcccttg atatcttcta 180
ctcccttgcc ttcaccttgc ttaagactga gaagggagtt agattttgtc actagctctt 240
cttttctc actgtgtacc ccaccaaaaca agattagttc aagttaaaaa gaacctactg 300
gaggtaaact gggagagcaa gtgttgatc tgggctggc ctttcccat aaaattaggt 360
ccctggtgt atgttcccat agcaccat acttctctc tcagaataat catttcctt 420
gtaatgctca gcatccgcat cctgcttgac tgcaaacttg ctgaaggtag ggactgtttg 480
tcttggactt cgctgccagt cctagaaca gtg 513

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<210> 513

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (46)..(46)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (117)..(118)

<223> n is a, c, g, or t

<400> 513

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atggatttgg ggtgttacag tagccttatt caccctttta ataaaaatac acatgannac 120
aagaaagaaa tggcttttct taccagatt gtgtacatag agcaatgttg gtttttata 180
aagtctaagc aagatgtttt gtataaaatc tgaatttgc aatgtattta gctacagctt 240
gtttaacggc agtgtcattc cccttgcac tgtaatgagg aaaaaatggg ataaaagggt 300
gccaaattgc tgcataattg tgccgtaatt atgtaccatg aatatattt taaaatttcg 360
ttgtccaatt tgtaagtaac acagtattat gcctgagtta taaatattt ttctttctt 420
tgttttatt taatagcctg tcataggttt taaatctgct ttagtttcac attgcagtta 480
gccccagaaa atgaaatccg tgaagtcaca ttccacatc 519

```

<210> 514

<211> 563

<212> DNA

<213> Homo sapiens

<400> 514

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agagcttct gatctgggtg aatgaggagg atcacacacg ggtgatctcc atggagaagg 60
gtggtaacat gaagagagt tttgaaagat tctgccgagg cctcaaagag gtggagagac 120
ttatccaaga acgtggctgg gagttcatgt ggaatgagcg ttgggatac atcttgacct 180
gtccatctaa cctgggcact ggacttcggg caggagtga catcaaactg ccctgctaa 240
gcaaagatag ccgttccca aagatcctgg agaacctaa actccaaaaa cgtggtactg 300
gaggagtga cactgtgct acaggcgggtg tcttgatat ttctaattg gaccgactag 360
gcaaactaga ggtggagctg gtgcaactgg tcatcgatgg agtaaaactat ttgattgatt 420

```


gtgaacggcg tctggagaga ggccaggata tccgcatccc cacacctgtc atccacacca 480
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 atgatggccc attctacttg etc 563

<210> 515
 <211> 549
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (76)..(76)
 <223> n is a, c, g, or t
 <400> 515

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 aagcagcatg aatatatcac ctaacatcct gacaataaat tccatccgtt gtttttttg 180
 ttgtttgtt tttcttttc cttaaagtaa gctctttatt catcttatgg tgcagcaatt 240
 ttaaaatttg aaatatatta aattgtttt gaactttttg tgtaaaatat ateagatete 300
 aacattgttg gtttctttg ttttcatatt tgtacaactt tcttgaattt agaaattaca 360
 tctttgcagt tctgttaggt gctctgtaat taacctgact tatatgtgaa caatttcat 420
 gagacagtca ttttaacta atgcagtgat tctttctcac tactatctgt attgtggaat 480
 gcacaaaatt gtgtagggtg tgaatgctgt aaggagtta ggttgatga attctacaac 540
 ectataata 549

<210> 516
 <211> 443
 <212> DNA
 <213> Homo sapiens
 <400> 516

agaagtctca gctaagctca cgtcctgaga aagctcaaag gtttgaagg agcagaaaac 60
 ccttgggccca gaagtaccag actagatgga cctgcctgca taggagtttg gaggaagttg 120
 gagttttgtt tctctgttc aaagctgcct gtccctaccc catggtgcta ggaagaggag 180
 tggggtggtg tcagaccctg gagggcccaa cctgtcctc ccgagctcct ctccatgct 240
 gtgcgccag ggctgggagg aaggactcc ctgtgtagtt tgtgctgtaa agagttgctt 300
 tttgtttatt taatgctgtg gcatgggtga agaggagggg aagaggcctg ttggcctct 360
 ctgtcctctc ttctcttcc cccaagattg agctctctgc cttgatcag cccaccctg 420
 gcctagacca gcagacagag cca 443

<210> 517
 <211> 516
 <212> DNA
 <213> Homo sapiens
 <400> 517

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 tctgcgtggc atctgtcagc tttcacctt tcattettat tetteaett tgctgctgag 120
 cctagctgta caaacttga ctttcatttg ctaatatataa ttacgtttta tttaccatt 180
 ttagagacta ctaatgatta aatgtagaag gagagggtgc acatgtttt atgtggagtg 240
 tttaaaagat aaatttatac cactgtaatg tgcagctttt attaaaagag aaattgggtg 300
 aactgctagg ttgaatgaga gacttcatct attggactat ttttttaac ccaggcatat 360

ggctcttagt aatggcttgt aatttgtgaa aacattaatt tgggggtttt ccctgttttc 420
agttgtccat gtacacatag tcattatatt agaaaagaaa gctgttcaac aaactgtttt 480
aattgttta aatcaacata gcatgaaaca ccaaat 516

<210> 518

<211> 516

<212> DNA

<213> Homo sapiens

<400> 518

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ttgtgtgtgt gtgtgggtgt gtgtgtgttt tgacacaaaa acaatgcaag catgtgtcat 120
ccatatttct ctacatcttc tcttgagtg agggaggcta cctggagggg atcagcccac 180
tgacagacct taatctaat tactgctgtg gctagagagt ttgaggattg ctttttaaaa 240
aagacagcaa acttttttt ttatttaaaa aaagatatat taacagtttt agaagtcagt 300
agaataaaat cttaaagcac tcataatatg gcatccttca atttctgtat aaaagcagat 360
cttttaaaa aagatacttc tgtaacttaa gaaacctggc atttaaatca tattttgtct 420
ttaggtaaaa gctttgggtt gtgttcgtgt ttgtttgtt tcactgttt cctcccagc 480
cccaaacctt ttgttcttc cgtgaaactt acctt 516

<210> 519

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (170)..(170)

<223> n is a, c, g, or t

<400> 519

aatgcgaagg ctaagtgtca cccctttct ctgcctctgg ctgggccttg ctaaggcca 60
aggaaagaaa gacattttt agggggcagc cagtccaat gccaaaagaa gaccagtct 120
tgccttgatt gtagaaatt tgacattttg gcacttttt tttttttt ggccaatcag 180
attttctatg ttctaaggac atggctgctg tagaatagca cagacgtgga tgataaatta 240
tccccagaag cagcatgaca gaatgcctcg gggagcactt ggaagggaaa ttgcagtct 300
gttgaaatag aggaaaatcc cttggtaaag acacagcctg ttaggctcgt gtgggcctcc 360
agtatgttca ccaggggaa 379

<210> 520

<211> 466

<212> DNA

<213> Homo sapiens

<400> 520

agtagtgctt gtggtttagc ccaccaatct tgatgactaa aagtagctga tgcattgtgc 60
atatgatgct tgagatggtt ttgcaaaag cagaaatcgc tgcaaggtaa tcacaataga 120
taaaagtgtt attttaaac ttgaaataa atggatgtaa ctgtaccttg gtacagcttt 180
tcactgttt agtttttaa cgtagtata atctgaataa ataaatgtt gccaaattca 240
atgtagaag aatgtgacaa cacacctgg gtagttctgc ttgtttttt gcattattga 300
aaagcagtgt cacagctaaa aagaaagaaa tcgtttctaa cagtaaatta ttgtgcttta 360
gttgctagtt tgactgaga gttgacctt cctgtgcag tttttgtt taaacttgta 420
taaatacaa ttgtgaatg tgtctccctc ctacattgta acaatt 466

<210> 521

<211> 547

<212> DNA

<213> Homo sapiens

<400> 521

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tggggacttg tggatcattc ctctccct gcaggagctt cccaagctgg tcacagagtc   60
tcttgggcac aggttataca gacccagcc ccattcccat ctactgaaac aggtgtcca   120
caagaggggc cagggaaatg gggtttttaa caagcgtctt aaaaacact tctctatcat   180
gcagccggag agctggctgg gagccctttt gtttagaac acatcctt cagcagctga   240
gaaatgaaca cgaatccatc ccaaccgaga tgccattaac attcatctaa aaatgttagg   300
ctctaatgg acgaaaaatt ctctgccat ctaataaca aaataaacta caaattcctg   360
acccaaggac actgtgttat aagaggcgtg ggctcccctg gtggctgacc aggtcagctg   420
ccctggcctt gcacctctt gcattcagca cagaagggtg tgacctgcc ctcagacca   480
ctctgtccc cactgaacgg caactgagac tgggtacctg gagattctga agtgccttg   540
ctgtggt                                     547
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<210> 522

<211> 502

<212> DNA

<213> Homo sapiens

<400> 522

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gcatacaggct aagaccctgt gtctccacc atgcactcac ccctagccct ggtagctga   60
cagtcagctg tggggaacac agctacaacc ctacctggc agggacctga gagcatctca   120
ggagggggcag cgcattgttg catgtgctgt gtgagtgagc acaccctgt gcacactcat   180
acacatgtgc acacacacgc actctccccg ctcaggggcc tggaggtctg gctgagcccc   240
tggggaaagg tgagttctt catctccctc ctccaggctg gactgcctgg agtcagggtg   300
cgaggccaca ttgtggctg cccctcttt gtagctcta taaagggcc acacctggtg   360
gatacctggt tgagcgtgtg gtctctgcc cagcctgtcc ttgtacgat cacaggcctt   420
gcttttataa caatgatgac cccggcctgt ctcatctct gaagaggaaa agtcaaagt   480
ttgtgtggc tccatattc aa                                     502
```

<210> 523

<211> 387

<212> DNA

<213> Homo sapiens

<400> 523

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gtgatagaca ctctgggtgg acccctcgac ctcatggctt gcagagtgtg tgcggccagc   60
acccgggaga tggcagctg catagctcag gccttacaga cgattaacta tgggcgggat   120
gatgagaagt gactgcggct gaggcaaagc tgctcccaag gcctccctgg gctgctgtgg   180
gctcctgggg aggtggccct cgtggccac gctccatgcc agtggctcac gctctgctcc   240
tggctacccc agagggagtt gtcacgtac agtgagtggc tggcctttta aatcgacgtc   300
tctctacca ggattgtgtg ttagctgtt tctctctta atctcacga gccttttca   360
ggtagtagc tgtctctg tcagggc                                     387
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<210> 524

<211> 320

<212> DNA

<213> Homo sapiens

<400> 524

gtgaatttc catgaatgtt ttaatatc tcattcaac attgtgat atgtactaa 60
 aaacatttc atatacatc tacctatt caagtgaatt atttaattc tttctctc 120
 ttcaaaaat ttacaggaat gtttagtga attggatttc gctatcagtt cccatccta 180
 agtttgata ttcaatatc gatagataca ctgcatttt ggctatctaa gatttgttta 240
 caaatgtgca aattatttag agcatagact ttataagcat taaaaaaac taatggaggt 300
 aaaacctaaa tgcgatgtga 320

<210> 525

<211> 543

<212> DNA

<213> Homo sapiens

<400> 525

ccaggactac agaataccat cccctggtac cgtgtagttg ccgaagtcca gatctgcat 60
 ggcaaaacgg aggtgtgtgg ccagggtccac atctctctcc aggatgggat ggtgacgttg 120
 actccaaaca aggtgtgttg ggtgaatgtt ctccagtggt atctccagc tgagaagta 180
 gcatctgtgt ccgtgagtcg tacacctgat ggctccctgc tagtccgcca gaaggcaggg 240
 gtccaggtgt ggcttgagc caatgggaag gtggctgtga ttgcagcaa tgacctgct 300
 gggaaactgt gtggggcctg tggaaacttt gacggggacc agaccaatga ttggcatgac 360
 tccaggaga agccagcgtg ggagaaatgg agagcgcagg actctcccc atgttatggc 420
 tgatcagtc tccaccagga acgaagattt cctgaagaag acctggtccc tctggaggtt 480
 gcggtggctg aaggatgcat catgtgctcc taccctgctc taccgcttt ctgggtcaca 540
 gag 543

<210> 526

<211> 541

<212> DNA

<213> Homo sapiens

<400> 526

tcatacttc ctctggttt tatgtattg tagactatgc agcttttcat taaactgcaa 60
 gtatatataa gacagatctg aaattaggcc tgagtgttcc gatccaccac tgtactagta 120
 aataaaaac cacctacctt ttatgtggaa aattatgtgc tattgagtaa ctttagctc 180
 tttttaaaa aatgggtgaa atttaagtgt ctttttatg agaatgacac atgaagagat 240
 ctgagagcaa tctcatgtg tcttccatga acctgcaatt gtttggtatg cgtcagcatt 300
 ttcaatttc caggttggtg ctgagctgc tttgatcac tcaggcatac taatggattc 360
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 ttacgcagtg cttagtaaat gagattgtg gaactaagtt attagttacc tgaggcttct 480
 taagaaagtc tcttttttg accagttgat gtgaaagagg gagcatgtga cacagccagt 540
 a 541

<210> 527

<211> 543

<212> DNA

<213> Homo sapiens

<400> 527

gacagtttga ctggaatgca acagcaggaa aattttgcaa gttacataat tgtatatata 60
 gtaggttttc ttaagtctct tcggttcac ctttgtaatt tgtgtgtgta tctgtagtat 120
 tgcaggcttt tggagactat tcttacaggc agtatgtcag tcatcaaaga aaatgctgtc 180
 acctgccatt gttgtatttg tgggtattta tagttgtatg tatgtaaatg catcagtgtg 240
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 tgatatgaaa agcaagtaca acctcatagg actgattata taatgaagtt gttgagagta 360

tatatagtgg tattgttta ttaaacttaa actcaaataa tattttgatt aaaatttta 420
ataagacttt atgctagaaa attctttgag ctttgaatca ccagggcaaa aatgactttc 480
aactaacctt gtgaatcttt tgcagtgtac tgtgtgcaat accaagggca tagctccctg 540
taa 543

<210> 528

<211> 520

<212> DNA

<213> Homo sapiens

<400> 528

tcccagcaac aaactcctca tgataactgc acacaatctg aaaaccactg aaggacaagc 60
caaccacagc agccaagccc actccttgca gcatgggtac tgggtggcaca ccagacagtg 120
aactgcccc acaaaggcct gggcccgtgg gggctgctgc ctggcatgac atctctccag 180
attctggct taaaaccaac ttccatccg agaagcctcc tcagtagtta ctctgctcat 240
gagacagatc tgggtcccaa gccaggaaag gtgaacagaa accacaagtg tccagccctc 300
gggtgctggag tggacgttaa ttgcagcca ccagactgtc ccggcaccta cagagaatgt 360
ttcacagttc tggcatttaa atcctttgat agtggattgt gctgctgtta gccttagttt 420
cagtgttta caagtctgc ttattatctc attggtattt aggtatacaa aacagttgat 480
tattcaccac gccaatatct gggctctctg atctcatgta 520

<210> 529

<211> 358

<212> DNA

<213> Homo sapiens

<400> 529

aaatgaaaag tccacctgtt ctctctcag aaaacctttg ttgttcattg ttggccaat 60
gaatctcaa aaactlgcac aaacagaaaa gtgggaaaag gataatacag actgcactaa 120
atgttttct ctgttttaca aactgcttgg cagccccagg tgaagcatca aggattgttt 180
ggtattaaaa ttgtgttca cgggatgcac caaagtgtgt accccgtaag catgaaacca 240
gtgtttttg tttttttt agttcttatt ccggagcctc aaacaagcat tataccttct 300
gtgattatga ttctctctcc tataattatt tctgtagcac tccacactga tctttgga 358

<210> 530

<211> 451

<212> DNA

<213> Homo sapiens

<400> 530

gacaagctac gtggagcctg gttcaggtcc ttttagtgag tctaccatta ccatttcct 60
gtatatccc tctgaacagc aatttgatcc acccaggcct ttagagtcag atgtcttcat 120
tgaagataga gccgaaatga ctgtgtttgt acggtctttc gatggatttt ctagtgccca 180
aaagaatcaa gaacaacttt tgacattagc aagcatttta agggaagatg gaaaagtgtt 240
cgatgagaag gtttactaca ctgcaggcta caacagtcct gtcaaattgc ttaatagaaa 300
taatgaagtg tggttgattc aaaaaaatga acccaccaaa gaaaacgaat gagaaaaatg 360
aaaggaaagt ctgctgtcag aggcaaaaaca tctgtttatc atagacatca acatgaccta 420
taagtaaagt gcgtgtctag tgtcttctat t 451

<210> 531

<211> 440

<212> DNA

<213> Homo sapiens

<400> 531

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ctagcctcat acccgtgccc tcacagagcc atgccccggc acctctgccc tgtgtcttc 120
atacctctac atgtctgctt gagatatttc ctacagctga aagttcccc aaccatctgc 180
cagagaactc ctatgcaccc cttagaaccc tgctcagaca ccattacttt tgtgaacgct 240
tctgccacat ctgtcttcc ccaaaattga tcaactccgc ttctctggg ctcccgtagc 300
acactataac atctgctgga gtgttgctgt tgcaccatac ttcttgtagc atttgtgtct 360
cccttcccaa ctgactgta agtgccttgc ggtcagggac tgaatcttgc ccgtttatgt 420
atgtccatg tctagcccat 440
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<210> 532

<21 1> 225

<212> DNA

<213> Homo sapiens

<400> 532

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aagcagtcga ccgcacttat ggtaatcagt ttgtataac taaaataat taaataaatg 60
aataaatcca aaacaaacat gcagtacttt tgtgtatgg gattgggtggg ctgatttaca 120
tgtatgggta ctaaaaagta ccagcatgtt aactttatta caatttgtat tactttctct 180
gtagtctcta atggattcaa ttacggactc tggatattg cactt 225
```

<210> 533

<21 1> 436

<212> DNA

<213> Homo sapiens

<400> 533

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tcctgatgtg ccagaacttc gaccctttct ctgagagaga tgatcgtgcc tataaatagt 60
aggaccaatg ttgtgattaa catcatcagg ctgggaatga attctctcta aaaataaaat 120
gatgtatgat ttgtgttgg catccctttt attaatcat taaattctg gatttgggtt 180
gtgaccagg gtgcattaac taaaagatt cactaaagca gcacatagca ctgggaactc 240
tggtccgaa aaactttgtt atatataca aggatgttct ggctttacat tttatttatt 300
agctgtaaat acatgtgtgg atgtgtaaat ggagcttgta catattggaa aggtcattgt 360
ggctatctgc attataaat gtgtgggtct aactgtatgt gtctttatca gtgatgtct 420
cacagagcca actcac 436
```

<210> 534

<21 1> 127

<212> DNA

<213> Homo sapiens

<400> 534

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agatacccg aagccatggc aagcaagggc ttgcaggacc tgaagcaaca ggtggagggg 60
accgccagg aagccgtgtc agcggccgga gcggcagctc agcaagtggg ggaccaggcc 120
acagagg 127
```

<210> 535

<21 1> 517

<212> DNA

<213> Homo sapiens

<400> 535

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ttctctctgc caaatgatca gagagggaac attccattta ttgtagtgg atttctctg 120
```

gagggcatgt acccacacta aataccaact gctcttcctc agGttagtc cccaacatca 180
gacttggcac gtggtggaca ctaacacaca ggcactcaat gaatgagtga aggaaataaa 240
agtcaccccc cgttggtgag aagggtgccta tccccctgag tcctcagtcg aggaccagtg 300
gatgaaaggc aaggtaaaga ggccaagat aggctggctt cccccgtca aggtatagtc 360
tgcctttaag ggagttttag aaccaacatg caagacattg aaagaaatct tgcaagagcc 420
attattgact tagatccaaa acagcctctc tcattgtctaa aaaggcacag aattttgcag 480
atctgaggaa gagggatgca ttacctttt gcttctt 517

<210> 536
<211> 512
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (30)..(30)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (34)..(34)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (473)..(473)
<223> n is a, c, g, or t
<400> 536

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cgtaaacaat cctacagtgc aagcgcagcc cccgaccacg aagagttgtc ttgtcaaat 120
atcaacagtgc ctgcagtgtg gaaacttgat cgttggtttt ctttaaatgc aaaactctca 180
taaaaacctt tcacttttcc tgtcattgat tatatgcttg atacacccaa aaagaaaagg 240
ggagggggcac caattcacct acactccagt ggctccatca cctttaaaaa tatttataaa 300
atagtccaa aaatctgata tctgaaaagc aatccaagcc tgtgtaaatg ggaatcactg 360
ataagtatca tcattctgat cagcttggct tggacatgaa aaattgattc tctttatgtc 420
actccttgca cctggacaaa ttcaatcccc ggtacttaag tcacttgcc aancctcgg 480
ccctgactat tgtcttgatt gctgttcctt tc 512

<210> 537
<211> 245
<212> DNA
<213> Homo sapiens
<400> 537

ctgtcacaaa tagcagcacc actttggatt gattttgctc tccaggacat cagcacatgg 60
ccctgatcag cactaccaca tccaaacata agtcactgaa aaacacttaa tatttatgag 120
ttggtaatga caagggacat tgtataaagt actatttgcg agattcatgc ctcaaaagtt 180
attataaaca gacctttatt aaacacatct tgaaagatgt agaagtcctt ctatagtcta 240
gtata 245

<210> 538
<211> 435
<212> DNA

<213> Homo sapiens

<400> 538

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caacgtctaa ctggacttcc caagataaat ggtaccagcg tcctcttaa agatgcctta   60
atccattcct tgaggacaga ccttagttga aatgatagca gaatgtgctt ctctctggca  120
gctggccttc tgcttctgag ttgcacatta atcagattag cctgattctc ttcagtgaat  180
tttgataatg gcttcagac tctttgcgtt ggagacgcct gttaggatct tcaagtccca  240
tcatagaaaa ttgaacaca gagttgttct gctgatagtt ttggggatac gtccatcttt  300
ttaagggatt gcttcatct aattctggca ggacctcacc aaaagatcca gcctcatacc  360
tacatcagac aaaatatcgc cgttgttctt tctgtactaa agtattgtgt ttgctttgg  420
aaacacccac tcact                                     435
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<210> 539

<21 1> 498

<212> DNA

<213> Homo sapiens

<400> 539

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cataaagaaa tggataaatg gggctttagt aatcaggct tgcaggctca aagctgcaat  120
ctgcccactc tcaggtagtg agactttgtg ggcctcagac accaggaaga aagttgggat  180
acagtcattt gagttaaaaa gggaatgacc cctcagaaac ccacattagc agtgttactc  240
ttggaactgc ctttactttt aacgctctct gttctgaaaa agaggtgttt ggttacgtgt  300
gagccaacat cagcttttgt tagctgtgat ttacctttgt ccgttataaa gacttcacgg  360
agccattctg tatacaaggt gtgctcttcc caatgtagaa ggggttatgg aaaagggtgc  420
gatcctttgc tgtaaaactgg agagaccagt cccaacaga ggggaatttt aagcccttct  480
catcacccaa ttgatgt                                     498
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<210> 540

<21 1> 474

<212> DNA

<213> Homo sapiens

<400> 540

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cctgaggggc ctcttatggg ctgggttcta cccagggtgct aggaacactc cttcacagat   60
gggtgcttgg aggaaggaaa cccagctctg gtccatagag agcaaaacgc tgtgctgccc  120
tgcccacctt ggctcttgca ctcccctgct ggggtgtggcg cagcatattc aggaagctca  180
gggcccttgc tcagggtggg tcactctggc agctcagaga ggggtgggagt ggggtccaatg  240
cactttgttc tggctcttcc aggtctggag agcctttcag ggggtgggaca cctgtgatg  300
gggcccttgc tcttttgtga ggaagccgct ggggccagtt ggtccccctt ccatggactt  360
tgtagtttc tccaagcagg acatggacaa ggatgatcta ggaagacttt ggaaagagta  420
ggaagacttt ggaagactt ttccaaccct catcaccaac gtctgtgcca tttt       474
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<210> 541

<21 1> 437

<212> DNA

<213> Homo sapiens

<400> 541

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tggcactcgg tggcagtcac cataaaacaa cacatcctgc acctggaact ggacacagac   60
agtagctaca cagctggaca gatccccctc ccacctgcca gactcaaga gccactacac  120
cttgagggtg ctccagccaa ttgacgaca ctgaggatcc ctgtgtggaa atcattcttt  180
ggctgtctga ggaatattca tgtcaatcac atccctgtcc ctgtcactga agccttggaa  240
gtccaggggc ctgtcagtct gaatggttgt cctgaccagt aaccaagcc tatttcacag  300
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caaggaaatt caccttcaaa agcactgatt acccaatgca cctccctccc cagctcgaga 360
tcattcttca attaggacac aaaccagaca ggtttaatag cgaatctaatttgaattct 420
gaccatggat acccatc 437

<210> 542

<21 1> 428

<212> DNA

<213> Homo sapiens

<400> 542

atctctgcct gtgcttatcc agataagaag accaaaatcc cgctgggaaa aaccaggcc 60
ttgacattgt tattcaaatg gccctccag aaagtttaat gatttccatt tgtattgtg 120
ttgatgatgg accacttgac catcacattt cagtattcat agatgactgt cacattttaa 180
aatgttccca cttagcaggg tacacaactg gtcataattc ctgtctgtgt aattcgatgt 240
atatatttcc aaacatgtag ctattgtttg ctttgatttt tgcttggcct cctttatgat 300
gtgcagtgtc ttgaaggctg aatgaacagt cctttcagt tcagcagatc aacaggatgg 360
agctcttcat gactgtctcc agcaatagga tgatttacta taaatttcat ccaactactt 420
gtgatctc 428

<210> 543

<21 1> 259

<212> DNA

<213> Homo sapiens

<400> 543

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tggtaatgta acttaattat aagctatgtc actaccctcc tgtaaaatac tattggacag 120
acacagaggg acccttggct cctgtgtctg gtccacacac cacagaagct tgtattatca 180
tggaataaa atgtactaca ttgcatgcc ttttgggttt gccttaattc ttacctcatt 240
tgcacccat cgatctgga 259

<210> 544

<21 1> 446

<212> DNA

<213> Homo sapiens

<400> 544

taacaggcac ctatctact cattagtga gagataattg gattacacag gcaggcttgt 60
ttactacatc cagaatgtag aaactgcttt ctcaacatc ttggttctag ctagtaataa 120
caatataatt ctttggcaga tattcagaat aacattttaa actacatttt cttagaaaat 180
tgcattcttg tagtgagcag tgtatggctt cttttgttca gaatttaaaa ctgataacca 240
atgaaagcct ttctcttat tctctaccg tcatttcat gataatctga agctaatatg 300
acaatattta aatactaagt ggtactaggg aactacaaga atactgtaaa gcttaagcca 360
ttgttatcac tgcatttag catttaataa caaaactata cagaattatg tgcataccaa 420
tgaatgtttt gtaccatcta gttaaa 446

<210> 545

<21 1> 563

<212> DNA

<213> Homo sapiens

<400> 545

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tcatagggca ttactggtag gcaggaaaac tgagggtcga acaaatggaa gaatgcggtg 120

atcatagacc aaagacacac agataattaa ccccatgtgt ccaccaggc caaagttctt 180
 cctgtaccc cacagtggat gtccaggcag atggccccca catgatgggg aagcagaggg 240
 catagtgtgg tttgtggga ctgttcacg tttgtagtg tgggctcaac agtgccaaag 300
 gaaacactag ggaaaagtgt gtgaacatg ccagctagca ggaccagtaa aggcataatc 360
 aggcatttgg caaagcttgc ttttctaatt caatgatagg ttctaataagg aaattttga 420
 agattttta aaacaatgtt atagtggcac ttcccagta tggaataaat aacatgcatt 480
 ctttttcaa tatactgtca tattcagatg tcattaaaat aaatggatga gtcacagagg 540
 agctatcaga tgctctcatg act 563

<210> 546

<211> 484

<212> DNA

<213> Homo sapiens

<400> 546

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 aaatagagtg cataaataat tttgtttta tcttttggg tttcttttag acacattagc 180
 tctggagtga gtctgtcata atatttgaac aaaaattgag agctttattg ctgcatttta 240
 agcataatta atttgacat tatttcgtgt tgtgttcttt ataaccaccg agtattaaac 300
 tgtaaatcat aatgtaactg aagcataaac atcacatggc atgtttgtc attgtttca 360
 ggtactgagt tcttactga gtatcataat atattgtgtt ttaacaccaa cactgtaaca 420
 tttacgaatt attttttta acttcagttt tactgcattt tcacaacata tcagacttca 480
 ccaa 484

<210> 547

<211> 402

<212> DNA

<213> Homo sapiens

<400> 547

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 ttcagtgcac ttctcttga ttgtctggg ttaaaccat tccttttga tgaatgttt 180
 tgacttagga atcatttat gtactgttc tacctggatt gtcaacaact gaaagtacat 240
 atttcatcca aatcaagcta aaatttattt aagttgattc tgagagtaca ggtcagtaag 300
 cctcattatt tggaatttga gagaagtata ggtgatcga tctgtttcat ttataaaagg 360
 tccagttttt aggactagta cattcctgtt attttctggg tt 402

<210> 548

<211> 503

<212> DNA

<213> Homo sapiens

<400> 548

agttagaaca tttgctgtca gccacatatt gagatgacac taggtgcaat agcagggata 60
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 agccagatca aggatgtagt atctcatagt tcccaggatga tatttttctt attagaaaaa 180
 tattataact catttgtgt ttgacactta tagattgaaa ttctctaatt tattctaaat 240
 tttaaagtgg tcttgggttc cagtgtctta tgtgttgtt gttttggat ggtgttacat 300
 attatatgtt ctagaacat gtaatcctaa atttaccctc tgaatataa tccctggatg 360
 atattttta tcataaatgc agaataatca aatacatttt aagcaagtta agtgcctcc 420
 atcaattctg tattccagac ttgggaggat gtacagtgc tgttgtgtga tcaaactgt 480

ctctgtgtag ttccagcaaa tea

503

<210> 549

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (331)..(331)

<223> n is a, c, g, or t

<400> 549

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ttgaaatgac acattaagcc tagcatcaca ttgtatagta cagtactca caaacccctc 180
aaggctaccc taatcattaa cattaatatt tgtttaaaag caaatcacgc atttatctat 240
tgaaactact taaatgacgg caaaccagga atgacagatg gctgtgtcag caatggcttt 300
aatgtgttcc ctgcaagtgg tctcctatga ntagaactgc gttctcaaat gcactctctt 360
cagggtctta atattctgtg ttttctctct gtatttgtaa aacattataa cacattaatt 420
tcctatctct acacatttgg 440

<210> 550

<211> 505

<212> DNA

<213> Homo sapiens

<400> 550

gtcaaggcat tgtatgttgc ttctgtggtt attattctgt gatgcttaga ctacttgaac 60
ccataaaactt ggaagaatct ttgagcaaat ttctcagtt gtctgtatga cttcagtata 120
ttcctgggaa tgccatagga tttttgtgc ttgatacatg gtatccagtt tgcatagtat 180
cacttctttg taatccagtt gctgttaaga atgatgtact ttaaaggaaa agagaaaact 240
gcatacacagt cccattctcc agtgtccatg caatgaattg ctgagcattt aggaagcagc 300
accaagtcta ttacaggcat ggtgtgaaac ttgatgtttg acctgtgatc aaaattgaac 360
cattgtacag ttggcttct gtttgctca aaatatgtag aattgtgggt gatgattaat 420
ttgcgagact aactttgaga gtgtaacagt ttgaagaaa acattgaatg ttttacaat 480
gaaggggctt cacggaatgt tacaa 505

<210> 551

<211> 476

<212> DNA

<213> Homo sapiens

<400> 551

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tatctacttc tctctctctg aagatgtcaa atcgtgggtt agatcaaata tatttcaagc 120
tataaaagca ggaggttatt tgtgcagggg gctggcatca tgtatttagg ggcaagtaat 180
aatggaatgc tactaagata ctccatattc ttccccgaat cacacagaca gtttctgaca 240
ggcgcaactc ctccatttc ctccgcagg tgagaaccct gtggagatga gtcagtgcca 300
tgactgagaa ggaaccgacc cctagttag agcaccttc agttccccga gaactttctg 360
attcacagtc tcattttgac agcatgaaat gtctcttga agcatagctt tttaaatac 420
ttttcttc tactctctcc tctgactcta agaattctct ctcttggaat cgcttg 476

<210> 552
<211> 493
<212> DNA
<213> Homo sapiens
<400> 552
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aaaactgtgt ctatgcaacc ttccaagtgc ggagtgtcaa ccaactggac gggagagagt 120
actgctccta ctccaggact ctcaaaagc tgatgagctg tacttcagaa aaaaataata 180
atttccatgt ttgtatata tctgacaaaa ctggcaacat cttacagact actgacttga 240
agacaacctc tttatatatt ctctatttct gggctgatga attgttttc atctgtcttt 300
tcccccttca gaattttcct tggaaaaaaa atactagcct agctgggtcat ttcttgtaa 360
ggtagttagc aattttaagt ctttcttgg tcaactttt ttaatgtga aaagttaggt 420
aagacacttt ttactgctt ttatgtttt ctgtctgtt ttgagaccat gatggttaca 480
cttttggttc eta 493

<210> 553
<211> 481
<212> DNA
<213> Homo sapiens
<400> 553
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tgagaactgg tacteteagt gtgttctggt catcttgggt ctagtttga gaagcagggtg 120
tgtctcttgc ctctgcttgc ctctactgc acactcagca cccaggactg gaatcaccga 180
ctactgaatc tctcatatgt attgctgcta cttcaagctc ctccactga aaccttatga 240
ttttccaagg ggagatggga cagtgtcatc taaatatctc gaatgttgg cttctgaga 300
aaagagcttc tagtaattga accatgggtt tcccagcttc tggagggttg gccgtgggct 360
gtgtacatgt gtgtgccag gggtagtgt ttctcaggat tctaacgat tcaaattacc 420
gttgagtata tataaagaat cgagtctctg tatggaagaa caaatgtgtg cattcacccc 480
c 481

<210> 554
<211> 377
<212> DNA
<213> Homo sapiens
<400> 554
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tttaaactac tgattgaatg ttaatgggtc atgetageae aatatlecta tgctgcaata 120
cattaaaata actaagcaag tatatttatt tctagcaaac agatgtttgt ttcaaaaata 180
cttcttttc attattgggt ttaaaaaagc attatcctt tatctcaca ataagtaata 240
tcttcagtt attaatgat agataatgcc ttttgggtt tgtgtggtat tcaactaata 300
catggttaa agtcacagcc gttgaatat attttatctt ggtagtacct ttctccctt 360
aggaatatac atagtct 377

<210> 555
<211> 482
<212> DNA
<213> Homo sapiens
<400> 555
gagctgactg acatatctt aaatacttt tactaacttt ateacaetta ctgtgtcata 60
gaatatcata cagtttatac gctcatagtt ctctgtgaa cacttcaaac ategetaage 120

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attgatctg gccatgata tggtagctgt gtttaattt gagaatcttg agggtagagc 180
cacaaatttc aattcttaca ttccatttg caaagtgact agagaaaaag aaatcagctt 240
aaatgaggta ttaagtaatg tttagagttg taggtattaa ctagaatata aatccttaga 300
aattgtcttt ataccttcaa aaattatact atgcatttat catagaaatg tgattacaaa 360
gaagtctgac taccatgtct ttaacatat ggcattctct aacttttctt ccttatgggg 420
ctacatttgt tcattccag cagtagcata aacttacggt gacatggtag acttgtctct 480
aa
482

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<210> 556
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
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 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (110)..(110)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (227)..(227)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (250)..(250)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (276)..(276)
 <223> n is a, c, g, or t
 <400> 556

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atttaggttg ttctaattt tcattattat aaagttgcag aaatttggtg tacataaac 180
tgtctccata taattgatta ttaggatata ttcccatgaa ggattcnttt ttttaaaaaa 240
atgtgaaatn tcattctgta ctacacctt tcatgnaaag ggatttcctg ctttgtact 300
gcatgggtgg cagttgtgag gaaaagccag tcaaatgacc tttttacaaa agaatgcag 360
tggtcacttc agttgagagt gactttttaa tacaacaaga tcaactagaa gaattcaact 420
gtctcaagaa tcaaggtacc ccaatatatc tcgcaattcc aaactttgtt tgagggactc 480
gttatccagc tcttggtagc cacacctgca atgta
515

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<210> 557
 <211> 430
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
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<223> n is a, c, g, or t
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<222> (46)..(46)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (120)..(120)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (358)..(358)
<223> n is a, c, g, or t
<400> 557
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cgccaggaat caccgccgata ggctgccacc ctattaggtg atacctgttt aatatgttgn 120
ccaggtagac tagtagttgc atcagtttgc tgtaacaagt aaccagttag gtaacacagt 180
ggtgaagcag gtcaggggag gtcaggagga tgtctgagag aaagaagtcc gggagatgaa 240
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taaagtacct gtagtgaaaa gaatgtgggg acccgattag cagaaagggtg ttgcacnta 360
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cacatgtgca 430

<210> 558
<211> 437
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (137)..(137)
<223> n is a, c, g, or t
<400> 558
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acacaggagg cggcgngca caaggcaagt gattttgcac tgcagcccc agaccgtaag 180
cttggctaca ctgatgtttt tctttactaa ggatactatt caaaaattaa catttcatc 240
tcagtaagtt tttagaacat caaatgttt tctgagctcc aagtggctag gttgtaaaag 300
ttttataata atttgaatt aaaatacatg atacatatta atccattaaa gactagtggg 360
aatgtatcag ccagagtagc aagtaatttt tgttttataa atcatagtat ctgtcatctt 420
gcagtattac caatgct 437

<210> 559
<211> 519
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
 <222> (49)..(49)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (61)..(61)
 <223> n is a, c, g, or t
 <400> 559

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 aataccattc tatgagaaag agtagttata tgcccagact gtattaattt actttagaaa 180
 ctaatgtttg aagtaatgga aaaaatttta aattataaag ctaagggtgca ataacatttg 240
 ctacttattt atagaattat ttgaagaatt ttgttttga agtaatgctt taaggagtat 300
 aagatattca agataaatta tactataaaa tgattttatt gaaagttgaa ggttacacaa 360
 attgttttag gtatgagcag aagagggtta ggtatttcta aaggtaacat atagtcaaga 420
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 ctatgtgtgc ttatagctct gactaaatgt gtttaccta 519

<210> 560
 <211> 412
 <212> DNA
 <213> Homo sapiens
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 atacagacca aagttgacca gtaggataat agcaaacatt tctaactcta ttaatgaggt 180
 ctttaaacct ttcataattt ttaaagggtg gaatctttta taatgattca taagacactt 240
 agattaagat ttacttttaa cagtctaaaa attgatagaa gaatatcgat ataaattggg 300
 ataaacatca catgagacaa ttttgcttca ctttgccctc tgggtattta tggtttctgt 360
 ctgaattatt ctgcctacgt tctctttaa agctgttgta cgtactacgg ag 412

<210> 561
 <211> 433
 <212> DNA
 <213> Homo sapiens
 <400> 561

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 agaagggtgc ttttatgagc atatttatac tgctg'aagga tgagtgttaa ttttaattaa 180
 ctttgccgtt ttgtagagaa aactattcac aagataaatt ccaagctttt tcacctgtca 240
 ggcacatgata ttttaatatc tgtttggata gtcagaagta gaatcataaa ggtaaaatat 300
 gagttgttac ttgtttctt cgatgtcata tttatgtgt aatatatatg taaagggcca 360
 ttcttaagtt ctctccttaa acttaatgct gtcaagtgtt agatgtgtgc atgtgaactt 420
 gttgcactgc aga 433

<210> 562
 <211> 490
 <212> DNA
 <213> Homo sapiens
 <400> 562

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 cattaatgta gataaagcac tgtttggata tgagatgtag caaattccaa tacattattg 180
 gacttccatt tggaaatcata tgggatactg ctggtcttat cctgtccctc ctccaggtag 240
 agagaccaca tgcagggtca acataacata agctagaaaa attagatgac tgaatttcta 300
 tggcatattg ataataaaat tcattccatt tgcgtattgt ctgaaatttt ctagaatact 360
 aataaaatc atactataga ttctttatta gtgaagtatg cactaatcaa tactttgaac 420
 acaaaagcctg tgttactgat ttggccggtt tgtgaagaaa catttatctt tgtacgttct 480
 tctattgtgc 490

<210> 563

<211> 475

<212> DNA

<213> Homo sapiens

<400> 563

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 ctactgagga taataaaatc cacattcact taggaagtcc ttacatgcaa gctgtagcca 120
 gcccttcagc accactgcag gataaccgaa ctcaaggctt aattaacggg gcactaaaca 180
 aaacaaccaa taaagtcacc agcagtatta ctatcacacc aacagccaca cctcttcctc 240
 gacaatcaca aattacagta agtaatatat ataactgacc aGgtcaccc tcattccagtc 300
 catactgata tttttgcaag gaactcaatc cttttttaat catccctcca tatcccccaa 360
 gactgactga actcgtactt ttgggaagggt tgtgcatgaa ctatacaaga gtatctgaaa 420
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<210> 564

<211> 306

<212> DNA

<213> Homo sapiens

<400> 564

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 tccgttattt cagtgacttg gtccccgtgg tctagccttc cccccctgtg acaaaccccc 180
 atttgtgctc ctgccaccct ggcatatgac tcactgtggg ggggtggctg tgggcagtga 240
 gcggatgtga ctggcgtctg acccgcccct tgaccaagc ctgtgatgac atgggtgctga 300
 ttctgg 306

<210> 565

<211> 490

<212> DNA

<213> Homo sapiens

<400> 565

tctggttgcc tatagtgtc tgggatccca ccgagaagaa ccatgggtgg acccgaactc 60
 cccggtgtc ttggaggacc cagtccittg tgccttgga aaaaagcaca agcgaacccc 120
 agccctgatt gccctgcgt accagctaca gcgtgggggt gtggtcctgg ccaagagcta 180
 caatgagcag cgcatcagac agaacgtgca ggtgtttgaa ttccagtga cttcagagga 240
 gatgaaagCG atagatggcc taaacagaaa tgtgcgatat ttgacccttg atattttgc 300
 tggccccct aattatccat ttctgatga atattaacat ggagggcatt gcatgaggtc 360
 tggcagaagg ccttgcgtgt gcatggtgac acagaggatg gctctatgct ggtgactgga 420
 cacatgcct ctggttaaat ctctcctgct tggtgatttc agcaagctac agcaaagccc 480
 attggccaga 490

<210> 566

<211> 491

<212> DNA

<213> Homo sapiens

<400> 566

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tccatactag gagcgtcagt gaggggtttc atagcttttg gaaatacttt ggtctctgaa   180
ctgtaattag caagaagtaa aaacagaaac gtcaaacgtc aaatgtttgc ttgttacct   240
ggaggactaa atgtagatgt ctttagtata cttgtatgt tcttaaatat tggaagataa   300
tttgtgaat ctgtagattt tttttttca gtcttacctt acaaatttct ttctatgaa   360
taatagagga actcacggca ctctgccact tgtaaatgaa aggaagtgca gaggatttag   420
aaaagtacat gatccccaga ccacaacaaa ccaaacata aactcatgtc tgtgtcccat   480
ggcatagtc a                                     491
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<210> 567

<211> 501

<212> DNA

<213> Homo sapiens

<400> 567

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agaagatggc cggaactcg atcctgtgg ctgctgtctc tattctctcg gcctgtcagc   60
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cagtactgg gtcaccagag tttagagag tatttcgggc acaacaaaac tgtgtggagt   180
ttatcctat attcataatt acattgtgga tggctgggtg gtatttcaac caagttttg   240
ctactgtct gggctgtgtg tacatatatg gccgtcacct atactcttg ggatattcag   300
aagctgctaa aaaaacggatc accggtttcc gactgagtct ggggattttg gcctgttga   360
ccctcctagg tgccctggga attgcaaaca gcttctgga tgaatatctg gacctcaata   420
ttgccaagaa actgaggcgg caattctaac ttttctctt cccttaatg ctgcagaag   480
ctgtcccac catgaaggta a                                     501
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<210> 568

<211> 474

<212> DNA

<213> Homo sapiens

<400> 568

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agatcacaga gcagcaagtt catacaacat gcatgttctc ctctatctta gaggggtatt   60
cttctgaaa ataaaaaata ttgaaatgt gtattttac agctacttta acctatgata   120
attatttaca aaattttaac actaacaaa caatgcagat ctagggatg attaaaggca   180
gcatttgatg atagcagaca ttgtacaag gacatgggtga gtctattttt aatgcaccaa   240
tcttgttat agcaaaaatg tttccaata ttttaataaa gtagttattt tataggggat   300
acttgaaacc agtatttaag ctttaaatga cagtaatat ggcatagaaa aaagtagcaa   360
atgtttactg tatcaatttc taatgtttac tatatagaat ttctgtaat atatttatat   420
acttttcat gaaaatggag ttatcagta tctgtttgtt actgcatcat ctgt       474
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<210> 569

<211> 444

<212> DNA

<213> Homo sapiens

<400> 569

gaaactgctg agacctattt ccctttcttg gggagagaat aagtgcacgc tgattaaagg 60
cagagacaca ggactgcttt caggctcctg gtttattctc tgattgactg agctccttc 120
accagaaggc actgcctgca ggaagaagat gatctgatgg ccgtgggtgt ctgggaagct 180
cttcgtggcc tcaatgccct cctttatcct catctttctt ctatgcagaa caaaaagctg 240
catctaataa tgttcaatac ttaattattct ctatttatta ctactgctt actcgtaatg 300
atctagtggg gaaacatgat tcattcactt aaaatactga ttaagccatg ggcagggtact 360
gactgaagat gcaatccaac caaagccatt acatttttg agttagatgg gactctctgg 420
atagtgaac ctcttcactt tata 444

<210> 570

<211> 464

<212> DNA

<213> Homo sapiens

<400> 570

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aaaacaagtg tgacttcgag gaccaaagaa attgtcagct atacatttat ctttatgaac 180
tcatttatat tccttttaa tgactcgttg ttctaacatt tcctagaagt gttctataa 240
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gttttactct agtcttagt acttcaaaa tacctttca tatccatgat ctgagtcca 360
tttgggggat tttaagaat ttgatgtatt tcaatacact gtcaaaaatt aaattgttta 420
attttatga tgagtatga tgttctgaa gttggtccta tta 464

<210> 571

<211> 499

<212> DNA

<213> Homo sapiens

<400> 571

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ggagctggga ggaaaagaaa agaggggaaa atgagtttt atggggctga acggggagaa 120
aaggctatca tcgattctac tttagaatga gagtgtgaaa tagacatttg taaatgtaaa 180
acttttaagg tatatcatta taactgaagg agaaggtgcc ccaaaatgca agattttcca 240
caagattccc agagacagga aaatcctctg gctgggtaac tggaagcatg taggagaatc 300
caagcgaggt caacagagaa ggcaggaatg tgtggcagat ttagtgaag ctagagatat 360
ggcagcgaaa ggatgtaac agtgcctgct gaatgattc caaagagaaa aaaagtgtgc 420
cagaagttg tcaagtcaac caatgtagaa agctttgctt atggtataa aaatggctca 480
tacttatata gcacttact 499

<210> 572

<211> 468

<212> DNA

<213> Homo sapiens

<400> 572

ggtgcaacag gaccaatggg ccagcaaggc atccctggca tccctgggcc cccgggtccc 60
atgggccagc caggcaaggc tggccactgt aatccctctg actgctttgg ggccatgccg 120
atggagcagc agtaccacc catgaaaacc atgaaggggc cttttggctg aaattcccca 180
cctgcctttg gatgaaagac tccgttggga ataatggcc aaagcttata ggactctgtg 240
acaggttgtg aatgttttt tttttgttg ttgtgttt taattgctgt taatatattt 300
taaataataa agaaacaaaa ctatctgcc ttcccttcc agtgggttcc tctggtgctg 360
cagccagagc tccctgttg cctcctttt ccgtttatg ccaggaacaa aaagggcatt 420

tgggtacagg ggcataacc tgtaatccta gctattcaag gggctgag 468

<210> 573

<21 1> 406

<212> DNA

<213> Homo sapiens

<400> 573

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tttcccgat attcgggcag cgagggcagc acgcagaccc tgaccaaggg ggagctcaag 120
gtgctgatgg agaaggagct accaggcttc ctgcagagtg gaaaagacaa ggatgccgtg 180
gataaattgc tcaaggacct ggacgccaat ggagatgccc aggtggactt cagtgagttc 240
atcgtgttcg tggctgcaat cacgtctgcc tgcacaagt actttgagaa ggcaggactc 300
aaatgatgcc ctggagatgt cacagattcc tgcagagcca tgggtccagg ctcccaaaa 360
gtgtttgtg gcaattattc ccttaggctg agcctgtca tgtacc 406

<210> 574

<21 1> 535

<212> DNA

<213> Homo sapiens

<400> 574

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actgtggaga aagagtttg tatatgtctg ataccgttg tataacaaaa caaattttt 120
tactatagtt tttgtttc tacctgcaca cccaccagaa gagcaciaag caaggccatt 180
gcaacaggca tttaaaaatt attatcaaac atgcacatgc ttgtacacac acacacacac 240
acacacaaac aggggcatth gtaaaagtgt ccctggaatg taagatttat aatgtttaag 300
gcaaggtgaa ggcattgccca agtgtgtgtc gctcatagga ctagtgtata ttcactgaaa 360
gttaacctga tgatttgta tttttgaac catatgtctga ttgcttctg gtttctgtt 420
agtgtgttct ctctgataag gggctgaaag attctgcac acacatctc tgagacctac 480
catgtcgac actttgttaa tgacaaact cactctacac tatacagtac cttgt 535

<210> 575

<21 1> 401

<212> DNA

<213> Homo sapiens

<400> 575

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gaggggctga cttaaatcca tgtaggaaag taaaatggaa ggaaattggg tgcatttcta 120
ggacttttct aacatatgtc tataatatag ttttaggtt cttttttt tcaggaatac 180
atttggaat tcaaaacaat tgggcaaact ttgtattaat gtgttaagt caggagacat 240
tggtattctg ggcagcttcc taatatgctt tacaatctgc actttaactg acttaagtgg 300
cattaaacat ttgagagcta actatattt tataagacta ctatacaaac tacagagttt 360
atgatttaag gtacttaag cttctatggt tgacattgta t 401

<210> 576

<21 1> 396

<212> DNA

<213> Homo sapiens

<400> 576

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gtgtgcaggt tccgatgtta ttgatgtta caagttata tatactata tatataatt 120

attgagtttt tacaagatgt atttgttgta gacttaacac ttcttacgca atgcttctag 180
agttttatag cctggactgc tacctttcaa agcttggagg gaagccgtga attcagttgg 240
ttcgttctgt actgttactg ggccttgagt ctgggcagct gtcccttgct tgcctgcagg 300
gccatggctc aggggtggtct ctcttggggg cccagtgcag ggtggccaga ggtgtcacc 360
aaaccggcag gtgcgatttt gttaaccag cgacga 396

<210> 577

<211> 318

<212> DNA

<213> Homo sapiens

<400> 577

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ttgaagtctt gttcttatgc tctctgctca ctggttttca ataccaccaa gaggaaaata 120
ttgacaagtt taaaggctgt gtcattgggc catgtttaag tgtactggat ttaactacct 180
ttggcttaat tccaatcatt gttaaagtaa aaacaattca aagaatcacc taattaattt 240
cagtaagatc aagctccatc ttatttgta gtgtagatca actcatgtta attgatagaa 300
taaagccttg tgatcact 318

<210> 578

<211> 411

<212> DNA

<213> Homo sapiens

<400> 578

ctttgcgggc acagagactg ccacaaagtg gagcggctac atggaagggg cagttgaggc 60
tggagaacga gcagctaggg aggtcttaaa tggctcggg aaggtgaccg agaaagacat 120
ctgggtacaa gaacctgaat caaaggacgt tccagcggta gaaatcacc acacctctg 180
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aactgccctg gggtttgtgc tgtacaaata caagctcctg ccacggctct gaagtctgt 300
tcttatgctc tctgctcact ggttttcaat accaccaaga ggaaatatt gacaagtta 360
aaggctgtgt cattgggccca tgtttaagtg tactggattt aactacctt g 411

<210> 579

<211> 201

<212> DNA

<213> Homo sapiens

<400> 579

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aaaggatgcc tttagggttt gggggagatt ttactcctt ctcaacaac tattcactgg 120
acaagttctc tgctccatg acgcgccagg cacagttctg caagtatatt gtgaatgtat 180
tgttctagtg ggatacaaa a 201

<210> 580

<211> 336

<212> DNA

<213> Homo sapiens

<400> 580

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tgctgtttct atgtcttgga agcaccggat gggggtagtg agcaaatctg ccctgctcag 120
cagtcacat agcagctgac tgaatcag cactgcctga gtagtttga tcagtttaac 180
ttgaatcact aactgactga aaattgaatg ggcaataaag tgcttttgc tccagagtat 240

gcgggagacc ctccacctc aagatggata ttcttcccc aaggattca agatgaattg 300
aaatttttaa tcaagatagt gtgctttatt ctgttg 336

<210> 581

<211> 521

<212> DNA

<213> Homo sapiens

<400> 581

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ataaagtcag aaaataaagt taacataact ttcactaaca cacacatag tagattcac 120
aaaatccacc tataattggt caaagtgtt gagaatata ttttagtaa ttgcatgcaa 180
aattttcta gcttccatcc ttctccctc gttctctt ttttggggg agctggtaac 240
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gtgatacat ctgtatgaat gaaacattgg agggaaacat ctactgaatt tctgtaatt 360
aaaatattt gctgctagt aactatgaac agatagaaga atcttacaga tgcgtctata 420
aataagtaga aaatataat tcatcacta aaatagcta ttttaaatc tatttcctat 480
attgtattc taatcagatg tattactctt attatttcta t 521

<210> 582

<211> 484

<212> DNA

<213> Homo sapiens

<400> 582

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ttacataata tgctgagaat tatttcttat gcttttact acaacaata ttactacct 120
ggattaaaga ttaaggcctt aatctgttta gattatctt aatctcatg aaatcgtgaa 180
ataagacaag aatagtgtt cagctgtagg ccatttaca gtaattgcc cataaattgt 240
agcatttatt gacctgaagt actaagctaa ttgtcttgac tactcaaagc cctgaattg 300
ttgcaactt tccccttgt gttgtgtagc cctaacgtca tttagctgt tgtctgatgc 360
ctccagtagg acacctccga tggagcttg atttctgagc agcgaaagct ccttcttaa 420
gatgcctc gcataggctg cctatgatga aggaccgtgc acctccact caacagagtg 480
ctga 484

<210> 583

<211> 503

<212> DNA

<213> Homo sapiens

<400> 583

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cttcaaatgg ttcatlag ccttgagaat ggttttga aacttgcca cactaaatg 180
tttttttt ttacgtaga atgtgggata aactgatga actccaagt cacagtgtca 240
ttcttcaga actcccttc attgaatagt gatcattat taaatgataa attgcactcg 300
ctgaaagagc acgtcatgaa gcacatgga atcaaagaga aagatataa ttcgttcca 360
cagcctcaa gctgcagtgt tttagattgc tcaaaaaa gaaaaagtt tgccttttc 420
gatatagtag ccttcttgc atattaaat gttaccaca atgtccatt tctagttaag 480
tcttcgact tgaaagctaa cat 503

<210> 584

<211> 465

<212> DNA

<213> Homo sapiens

<400> 584

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cagaagggct ggatgccccg ggagagcgtg ctccacacc tgcaggtgca gcacctgacc 60
ggggggctca tcgaccccaa gaggacaggc cgcacccca tccagcaggc cctcctctcc 120
gggatgatca gtgaagagct ggcccagctc ctgcaggacg agtccagcta cgagaaggat 180
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cgctccgct cccccaccgt cccgcgctcc cticgctgac acgggccaag gagccagtgg 360
ggaagtgcgt gtgttgggcc aggtaggata cgtacacctc ttgcctcaga gcagcctcat 420
cccaggcagt gggtcttccc tctgtccaac cactgtttta ttatt 465
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<210> 585

<211> 360

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (271)..(271)

<223> n is a, c, g, or t

<400> 585

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tgcttgaact ttagtaaac acctgcttag ggactttgaa cttaaata tccccctct 120
caagtgggtc tttttaaaa ctaaaaaaa cttgaattg gctattttt taatgcaata 180
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agatgaggat attattatt tgatccaaa nagaattca gataaaggga aattgacta 300
gtgaatctg agatatgtca tagggatttc ttctgacaa aagggtgctt tgctgtctt 360
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<210> 586

<211> 520

<212> DNA

<213> Homo sapiens

<400> 586

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cccagacccg ccgtagtata agcctaaca gcaacacgta gcacctagt cttgttcca 180
ggagagctga gcaagctggt gaaaccactc tccttcttt aaacaccgtt tcaaccaacc 240
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tgcatttcag acataccagt tactgaaagc aaatcagttt taagtattt ctcaagtctg 360
aaaagcctgt ccaggtttc tcctttcc caagcctctc tctgtaatac tcctttggg 420
cgaagctaac atcgggtcct ccccgacctt gctgactagg cacatgggac gcaaaggagg 480
gaggggaagca aggccttgcc tggcgagttg tcatgtggtt 520
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<210> 587

<211> 468

<212> DNA

<213> Homo sapiens

<400> 587

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taaaccagt cactgttata cccggggcac tctaaccatc acaatcaatc aatcaaattc 60
```

ccttaaattt gtatggcact ggaactttgg caaagcactt ttgacaagtt gtgtctgatt 120
ggagcttcat gatagccttg tgacatcttt agggcaggat tcttatcccc atttgcaga 180
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gccactgtc accttctaga ccacatgata gggctagaca gtcagtcca catgattct 300
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tcaatttctg ggcctgaggt gtcagactg cccccaagat caaatctctc ctggctgtag 420
taaccagtg gaatgaattt ggacatgccc caatgcttct atagccta 468

<210> 588

<211> 523

<212> DNA

<213> Homo sapiens

<400> 588

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aaaaatgtag agcacaatgg aattatgctg gaagtctcaa ataataattt ttctctattt 120
tatactcatg gaagagataa gctaaagagg ggacaataat gagaaatgtt ggtgtgcttt 180
tctaagcatt taaaacataa ttgccaattg aaacctataa tatgtttaca taccattaag 240
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agtatatatc ctagtgttcc tatagtgaag taagtagggg tcagccaaag ctttctttgt 360
tttgtacctt aaattgttgc attacgtcat caaaagagat gaaaggtatg tagaacaggt 420
tcacgtgatt acctttttt ttggccttgg attaatattc atagtagaac ttataaaac 480
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<210> 589

<211> 465

<212> DNA

<213> Homo sapiens

<400> 589

ctcacacttg tctgttcttc agtgcaggag gtcctggcag ggtcaggctg gggtaagccg 60
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cctccctcag gaactggagg aggggactcc aggaatgggg aatgtgaca ccaccatcct 180
gaagccagct tgcacctcca gttgcacag ggattgttcc tgggggctga gggccctgtc 240
cccacccccg ccttgggtgc tgcataaaa gggcaggcag gggcaggctg aggagtgtcc 300
cgttgcctcc cagagactga ctctcagagc cagagatggg atgtgtgagt gtgtgtgtgt 360
gtgtgtgctc gcgcgcgcgc gtgtgtgtgt gcacgcactg gcctgcacag agagcatggg 420
tgagcgtgta aaagcttggc cctgtgccct acagtgggga cagct 465

<210> 590

<211> 532

<212> DNA

<213> Homo sapiens

<400> 590

gaggaacttg ccaaactaag gactagggtg cagaaggaaa attagcacca ataaagagga 60
aatatgaaag gattcttgaa gatttccagt ttgcaactg cataatagct atgccaagg 120
agtcaactat tgtatatatt cgagatttgc cttttataaa aaatcactaa ttctacaatg 180
tgccagatac atgtttccta tgcccaggaa gttatgaaga ctcaacaat taaactgaaa 240
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atctgaagtt tgaaagctca gattaagcaa gccatgcaa gaaactggac gatgtgtaag 360
cctagactct aaaattcaag atgtgtgaaa taatataagt caaaagcaag aaaaacgtaa 420
tcccgctgta actcaagtag tcattcatat aaatttgaac acacctgctg tgcctagaca 480

agtgctcttc tgtaagagct gtaactctga gatgtgctaa ataaaccctc tt 532

<210> 591

<211> 129

<212> DNA

<213> Homo sapiens

<400> 591

aatcttctg ttgaatgctt catgacttga attctacttt gataaaaaca ttgccatact 60
gctttttatc ttgatgaatt catctggcat tgctttgcct tatcatctca tctggagttt 120
ttaaatgcc 129

<210> 592

<211> 476

<212> DNA

<213> Homo sapiens

<400> 592

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<210> 593

<211> 537

<212> DNA

<213> Homo sapiens

<400> 593

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ccctactatt tcaaatatat tgtacttttt tatttctgta agccaactgt gtgccatttt 420
cactggactt taaatctag actttagtga tgtctacatt gtaaatgac ttttgtggat 480
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<210> 594

<211> 543

<212> DNA

<213> Homo sapiens

<400> 594

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agatgctgct tgacataaag acacggctgg agcaggagat cgctacttac cgcagcctgc 180
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aca 543

<210> 595
<211> 568
<212> DNA
<213> Homo sapiens
<400> 595

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aaaagttcat gaagtaccaa tgcaagtgtt ttatTTTT tctttttcc agcccataag 180
actaagggtt taaatctgct tgcactagct gtgccttcat tagtttgcta tagaaatcca 240
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agtatttttg aaaaagtgtc ttcatcttat attgtgtaat tgtaactaa agataccgtg 480
ttttcttgtt attgtgttct accttccctt tcaactgaaa tgatcacttc atttgatact 540
gtttttcatg ttctgtatt gcaaccta 568

<210> 596
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (250)..(250)
<223> n is a, c, g, or t
<400> 596

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cttattagcg ctcaaaaaga agtcagttta cgtcacccaa aagcacaaaa tggattttag 180
tcaaatattt attggatgat acagtgtttt ttaggaaaag catctgccac aaaaatgttc 240
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<210> 597
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (314)..(319)
<223> n is a, c, g, or t
<400> 597

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gaatcggata tagcaactaa agtcaataca tttgcagga ggctaagtgt aagagtgtgt 300
gtgtgtgtgt gtgnnnnnnc gtgcatgtgt gtgtgtgtgt atgtgtgtga ataagtcgac 360
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aacaccacaa agategcac tgtaaacag gtacaagttg acatgagggt agttaattg 480
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<210> 598

<211> 521

<212> DNA

<213> Homo sapiens

<400> 598

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taggatattt ctacaaggtg ttcattttgt cacaagctgt agataacagc aagagatggg 180
ggtgtattgg aattgcaata cattgttcag gtgaataata aaatcaaaaa cttttgcaat 240
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tatggccgta tcaaattgga gctgaaaaaa ctatatttga gcaactggtct ctcttggaat 480
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<210> 599

<211> 532

<212> DNA

<213> Homo sapiens

<400> 599

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tctcaaagct aaggacaaaa tccagctaac ccagtcctc ggcccaggcc tccttcgtg 180
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taacacatca gatgggaggg tcagcccgtg gaccttaag gtatcttcta acctagaaac 480
tcaccataat tatggtgcaa ggtcagtggt tctctgagat ctatgtctgt tg 532

<210> 600

<211> 447

<212> DNA

<213> Homo sapiens

<400> 600

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cccatttctg tgagaccctg tatttcaaat ttgcagctga aaggtgcttc tacctctgat 360

ttcacccag agttggagtt ctgctcaagg aacgtgtgta atgtgtacat ctgtgtccat 420
gtgtgaccat gtgtctgtga ggcaggg 447

<210> 601
<211> 447
<212> DNA
<213> Homo sapiens
<400> 601

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cccattctg tgagaccctg tatttcaat tgcagctga aaggtgttc tacctctgat 360
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<210> 602
<211> 547
<212> DNA
<213> Homo sapiens
<400> 602

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tgatagctgt cccatctggt catgtgggtg gactagact ggtggcaggg gcttctagct 180
gactgcaca gggattctca caatagccga tatcagaatt tgtgtgaag gaactgtct 240
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aaagtgatta aagtgtcac gttacctga cacatagttt ttcagtctat gggtttagtt 360
acttttagatg gcaagcatgt aacttatatt aatagtaatt tgtaaagttg ggtggataag 420
ctatccctgt tgcgggttca tggattact ctctataaaa aatatatatt taccaaaaaa 480
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ttctgag 547

<210> 603
<211> 543
<212> DNA
<213> Homo sapiens
<400> 603

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tgcttagtgt ttgatgtcat taacagttc gtaaaactct acagtgtaga aagatttga 480
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atg 543

<210> 604

<211> 473

<212> DNA

<213> Homo sapiens

<400> 604

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gggcaccaga gaaccacaaa taggacaaag cgaaagaaga aacagcctac ctcatacttc   120
tcaagccagt tgaagaaacc ttgccttttc agcttgacct tgcaatataa catgcacagg   180
cctgtctgtg aatcaggact gaatgtgaaa gggaagtatt gaggtaggac attcccaaaa   240
ccaaaggaca actgaggaga ctgccagca cataatgaat aaataagaaa atgagtgagg   300
agttattaac atcatttga aaaaagattt cccattcact tgatattgtt tgttactca   360
tttagtcatt aaaagtga ttaataaaat ctgaaaatgt tatataataa ctttaaaaag   420
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<210> 605

<211> 465

<212> DNA

<213> Homo sapiens

<400> 605

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ttatgcaaaa ctctaataaa atggagtcgg gggggcacat agaagccctc acacacacat   180
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ggaaaagcac gtctcaaaag actgtatgat tccagatgag ctgcagatgc ttacctacca   300
cgccgctctc caccagaaaa ccatcgccaa ctctgcgat cagcttgtga cttacaaacc   360
ttgttataaa gctgcttaca tggactctg tctttaaaa cgttccctt ggctgtggcc   420
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<210> 606

<211> 373

<212> DNA

<213> Homo sapiens

<400> 606

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gtgatgttag gacagagtga gagaagtcag ctgtcacggg gaaggtgaga gagaggatgc   180
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caatggctcc ccactctaag cactgcctcc cctactccc gcatcttgg ggaatcgggt   300
ccccatatgt cttccttact agactgtgag ctctcgagg gcagggaccg tgccttatgt   360
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<210> 607

<211> 364

<212> DNA

<213> Homo sapiens

<400> 607

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gaagctgtgc agtataaaac tcaagtgtt gctggaacaa attactacat taaggtacga   180
gcaggtgata ataaatatat gcacttgaaa gtattcaaaa gtctcccgg acaaaatgag   240
gacttggtac ttactggata ccaggttgac aaaaacaagg atgacgagct gacgggctt   300
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tagcagcatg tacccaaagt gttctgattc ctcaactgg ctactgagtc atgaccttg 360
ctga 364

<210> 608

<211> 477

<212> DNA

<213> Homo sapiens

<400> 608

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agagaaggca gctacggcta ctctacatc ctggcgtggg tggccttcgc ctgcaccttc 420
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<210> 609

<211> 480

<212> DNA

<213> Homo sapiens

<400> 609

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<210> 610

<211> 523

<212> DNA

<213> Homo sapiens

<400> 610

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ccagaggaag actgccctgg agttctgtgg agagacttgg agctctctct gcacattctt 180
cctcagcata gtgcaggaca cgtcatgcta atgaggtcaa aagagaacgg gttcctttaa 240
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agcatgtatt tccatggccc acacagctat gtgtttgagc agcgaagagt ctttgagctg 480
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<210> 611

<211> 556

<212> DNA

<213> Homo sapiens

<400> 611

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ccttcacccc agtggccact cagcttcta cccacacctc tgccagaaga tcccctcagg 540
actgcaacag gcttgt 556

<210> 612

<211> 193

<212> DNA

<213> Homo sapiens

<400> 612

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ctgagcacga aggcaaaccc tactgcaacc acccctgcta cgcagccatg ttgggccta 180
aaggctttgg gcg 193

<210> 613

<211> 402

<212> DNA

<213> Homo sapiens

<400> 613

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taacaacaaa caatggagaa aaagaattga ttcttagtga cacagaagat tgccttacgc 180
tcgtgagcgt gagaagccat aagagagaga ccgaattctg tggctcagca cacaggactg 240
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gagcagagcc agggcctggc gagctggcgt ggagcccaca ggattcagca gcattggacag 360
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<210> 614

<211> 536

<212> DNA

<213> Homo sapiens

<400> 614

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ggacccccac taagaccctg gtctgaggat gtagagagaa caggtgggct gtattcacgc 480
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<210> 615

<211> 548

<212> DNA

<213> Homo sapiens

<400> 615

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tggggaatgga atcactgatt ttcagttctt tccatttctt tctctctaga atctgtgac   480
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gtctgtcc                                     548
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<210> 616

<211> 371

<212> DNA

<213> Homo sapiens

<400> 616

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ggcaagtggg tcgacaagcg ctgccgcat cagctgccct acatctgcca gttcgggac   360
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<210> 617

<211> 545

<212> DNA

<213> Homo sapiens

<400> 617

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gtttattata aaatataaac agatatataa agatgttgac tcttacctgt gattttgcat   180
ggtcagactc ggtgtcaggt aeggagagga ttctcatgac tgtcttacct ctactgaata   240
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ccctttactt aattatattg tagtgtgcag ataacaaaac tgctaccttc tcatccaagt   360
ggtctgtaga attcatgtcc ctacagtgg tcatttaaag tcaatattta ttatgtatg   420
taataaaaaa agttggattt ttgtgtatgt ctgtcacatt atttagagag aagtaatctt   480
gtaaaaatgt ttgtaaaaa acaaaaaagt attgtaaata gtcttgatat tctgtgactc   540
attat                                     545
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<210> 618

<211> 423

<212> DNA

<213> Homo sapiens

<400> 618

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gagcccccca ctacgtaggt ctgaaggcct ccatttgtac cgaaacaccc cgctcacgct 120
gacagcctcc taggctccct gaggtacctt tccaccaga cctccttcc ccacccata 180
agccctgaga ctcccgctt tgacctgacg atcttcccc tcccgcctt caggttcctc 240
ctaggcgctc agaggccgct ctgggggggtt gcctcgagtc cccccaccc tccccacca 300
ccaccgctcc cgcggcaagc cagcccgtgc aacggaagcc aggccaactg ccccgctct 360
tcagctgttt cgcattccacc gccacccac tgagagctgc tctttgggg gaatgttgg 420
caa 423

<210> 619
<211> 543
<212> DNA
<213> Homo sapiens
<400> 619

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gttacaaact ccttgctct aaagtcagat catgaaggga taggtgttca tctaaggta 120
cagttatgtt accgaaacac aaaactgcc aaatcttact ctgctgttat gaatgtttac 180
catcagcatt attttatcat ttaatatgtg ctactgatt gttactgtg gttcagcgc 240
gtgccaagca gttgacttaa taggatcatc ttgtgaattt gttacgtga tgccaagcat 300
caagtcatgt tttctttagt gtgtgtgctt acacagggtg taaacagttt ttctctattt 360
taaactgagc cttcttttta atatattccc gaagagatat gtaaataagc tctcagagtt 420
tctgtgatga tttgttgagc ctgctggac aagtggttg tttgtgtgca aaccaaactt 480
tctttacca gtgcaataga tttgttgac tgctgtgtc ttttatgac ctgttgcct 540
ttt 543

<210> 620
<211> 406
<212> DNA
<213> Homo sapiens
<400> 620

gcagactggg agttgctagc aaacaaatgg ctacttaca aaagcagctt ttagttcaga 60
cttagtttt ataaatgag aattctgact tacttaacca ggtttgggat ggagatggtc 120
tgcatcagct tttgtatta acaaagttac tggctctttg tgtgtctcca ggtaactttg 180
cttgattaaa cagcaaagcc atattctaaa ttactgttg aatgcctgtc ccagtccaaa 240
ttgtctgtc gtcttattt ttgtaccata ttgctcttaa aaatcttgg ttgtacagt 300
tcataattca ccaaaaagtt catataattt aaagaaacac taaattagtt taaaatgaag 360
caatttatat ctttatgcaa aaacatatgt ctgtcttgc aaagga 406

<210> 621
<211> 530
<212> DNA
<213> Homo sapiens
<400> 621

gactcttga aatgacatgt tcccttaagg tactgaagct ttatttgcatt atttattca 60
gatgttcga gtaaacttga aaaggtagg cacgaagcaa ttgttgctg ctgtcacc 120
ccaagtcccc gtggaggttc tgtattttaa gaaacagtgc gttgagtga cagattttat 180
ttatgcgtaa ttaatatggg tctgtaaata ctggtgcact tctacgact ttttgagac 240
atgggatcca attttaatat taactttta ttgtgatggg gtaatctata acacatcata 300
aggttttatt catatatata cagggtatta agaattaaga ggatgctggg ctctgttctt 360
ggcttgaag attctattta attgaaactc tctgttcaga aagcaataac ttgtctcgt 420

tcctgttggg ctgaacccta aggtgagtgt gcagtacagt gtgtgtgggt gaaatggaga 480
tttgaattg aactctctgc ctgtaaatgt tcccaaata attgttgtgt 530

<210> 622

<211> 434

<212> DNA

<213> Homo sapiens

<400> 622

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ctgggacctt ctgtgggtga cgcacacctt gggatggggc tagtagagcc ttcaggcgcc 180
ttcgggctgt gactctggcg cactctagt gacaggagaa ggaacgcctt ccaggaacct 240
gtggactagg ggtgcaggga cttcccttg caaggggtaa cagaccgtg gaaaacactg 300
tcacttcag agctcgggtg ctcacagcgt gtctgcccc ggtttgcgga cgagagaaat 360
cgcggcccac aagcatcccc catccctgc aggctggggg ctgggcatgc tgcactttaa 420
cctttgtat ttat 434

<210> 623

<211> 417

<212> DNA

<213> Homo sapiens

<400> 623

ggagtttgt gacctatga acagcaaaga atccaagttt accttcaaga tgaatccagg 60
tgatgtgatt acctttgata actggcgctt acttcatggc cgacgtagct atgaagcagg 120
aactgagata tcccgccatc tagaaggagc ttatgctgac tgggatgtgg tcatgtcaag 180
gcttcgtatc ttaaggcaga ggggtggagaa tggaaactga agtcacctgt agataatttt 240
aataagattc caatgacctt atttgtgag atatggcaca ttattcacag accatgatct 300
ttgtgattta catataattt ccttaacaat gaacatgtaa cttctctcac aagagtactc 360
tttactttgt aatcatatac aatgtcaact ttttagatgt ttcaccactc ttttgca 417

<210> 624

<211> 317

<212> DNA

<213> Homo sapiens

<400> 624

cgccatcacc gagcgcttga tgtgcgcgga gagcaatcgc cgggacagct gcaagggtga 60
ctccgggggc ccgctggtgt gcgggggctg gctcgagggc gtggtcacct cgggctcgcg 120
cgtttgcggc aaccgcaaga agcccgggat ctacaccgc gtggcgagct atcggcctg 180
gatcgacagc gtctggcctt aggtgcccgg ggcctgaagg tcagggtcac ccaagcaaca 240
aagtcccag caatgaagtc atccactcct gcatctggtt ggtctttatt gaggacctac 300
tatatgcaga agggggag 317

<210> 625

<211> 383

<212> DNA

<213> Homo sapiens

<400> 625

ttttgcgtga cccctgagt ggggaaaggc aggctgttgc atggtggcct gagcgagcag 60
aatctctcca gggacaatgg cgtctcttgg ccacatcttg gtttctgtg tgggtctcct 120
cccatggcc aaggcagaaa gtccaaagga acacgaccgc ttcacttacg actaccagtc 180

cctgcagatc ggaggcctcg tcacgcccgg gatcctcttc atcctgggca tcctcatcgt 240
 gctgagcaga agatgccggg gcaagttcaa ccagcagcag aggactgggg aacccgatga 300
 agaggaggga actttccgca gtcctatccg ccgtctgtcc acccgaggc ggtagaaaca 360
 cctggagcga tggaatccgg cca 383

<210> 626

<211> 317

<212> DNA

<213> Homo sapiens

<400> 626

gggccacgcc aggaatatc agaaaataat gagaactaca ttgaagtgcc attgatttt 60
 gatcctgtca caagagagga ttgcacatg gattttaaat gtgtgtcca taataccctg 120
 agttttcaga cactacgcac cacagtcaag gaagcctcct ccaggttctc ctggggcatt 180
 gtgtgtggccc cactttcact ggccttcttg gttttggggg gaatatggat gcacagacgg 240
 tgcaaacaca gaactggaaa agcagatggg ctgactgtgc tatggcctca tcatacaagac 300
 tttaaatcct atcccaa 317

<210> 627

<211> 397

<212> DNA

<213> Homo sapiens

<400> 627

gggatagtcc atatgcaagc agctccaaag gaggaatgtg ccctggagat catcaaaggg 60
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 agaaatccat gcaggaagat cctggaattt ctctactcaa cgagctataa tatggacaga 180
 ttcataaaca agtaggaaact ccctgagggc tgggcatgct gagggatttt gggactgttc 240
 tgtctcatgt ttatctgagc tcttatctat gaagacatct tcccagagtg tcccagaga 300
 catgcaagtc atgggtcaca cctgacaaat ggaaggagtt cctctaact ttgcaaaatg 360
 gaaatgtaat aataatgaat gtcatgcacc gctgcag 397

<210> 628

<211> 561

<212> DNA

<213> Homo sapiens

<400> 628

attgctgcta cttatataat tgccaaaaag tgaaataatg tgtagttcat gtaaataata 60
 cattatattt ctattttatt atgaagaagg tgaatagcca tatttgtaa atgacaatca 120
 tgtgtgttaa ccagtgctt tccattcgtg aaaacacatt tgcttttgt gatatgcaca 180
 atgtagataa gtgttctgtc tgactttctt tttgatata gaagtataaa gaattgtggt 240
 ttatatattt aaaagtgtca agctgagtat taaaatgtat gcatgtgtc taagaaattg 300
 aatacttgaa tgtgtctcac agtttgaaat aagctatttg atgtaatact tcttgttgt 360
 atgcacatga aacttagatt ttacatgaag tatttttca gtattatatg tacccttga 420
 aatacatagg gatatgcgta ttataccaaa atgttgctga aaaatgggca cttaaagctt 480
 tcagaatatg tcagtgtcga ttagcatgc ttgttgcaat tgccttttt ctgtataaat 540
 gtctttaatg caatatactg g 561

<210> 629

<211> 514

<212> DNA

<213> Homo sapiens

<400> 629

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cagactgttc agtgtttgtc aagcttctgg tctaatatgt actcgaaaga ctttccgctt   60
acaatttga gaaacacaaa tatcgttttc catacagcag tgcctatata gtgactgatt   120
ttaactttca atgtccatct ttaaaggaa gtaacaccaa ggtacaatgt taaaggaata   180
ttcactttac ctgacagggg aaaatacaca aaaactgcag atacttcata tagcccattt   240
taacttgat aaactgtgtg acttgtggcg tctataaat aatgcactgt aaagattact   300
gaatagtgtg gtcattgtaa tgtgcctaata tcatgtatc ttgtaatcat gattgagcct   360
cagaatcatt tggagaaact atattttaa gaacaagaca tacttcaatg tattatacag   420
ataaagtatt acatgtgttt gattttaaaa gggcgggacat ttattataaa tcaatattgt   480
tttgctttt tctgaggagt ctcttcagt tca                               514
```

<210> 630

<211> 527

<212> DNA

<213> Homo sapiens

<400> 630

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gattctctgt accaagtgt gacgaatgc tgggaggcag acccagcagt gcgacccacc   60
ttcagagtac tagtggggga ggtggagcag atagtgtctg cactgcttgg ggaccattat   120
gtgcagctgc cagcaaccta catgaacttg ggccccagca cctcgcata gatgaatgtg   180
cgtccagaac agccgcagtt ctacccatg ccagggaatg tacgccggcc ccggccactc   240
tcagagcctc ctgcggccac ttgacttagt tcttgggctg gacctgctta gctgccttga   300
gctaacccca aggtctccctc tgggccaatgc caggccagag cagtggccct ccacctgtt   360
cctgcccctt aactttcaga ggcaataggt aaatgggccc attaggtccc tactccaca   420
gagtgcagca gtgagggcag tcctgcaaca tgtatttatg gagtgcctgc tgtggaccct   480
gtcttctggg cacagtggac tcagcagtga ccacaccaac actgacc                               527
```

<210> 631

<211> 489

<212> DNA

<213> Homo sapiens

<400> 631

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gagggtgatg ccatctaacc ctgcccctgt ccaccccggtg tgggtgaaac tactgagca   60
gccaagactg ttccccagg actcactgta tgggtccctc tcaaagggt cgggagggtta   120
gctctccagg ccagagcttg tctcctcaa cagagaggcc agcggcaact ggtccgttac   180
tggccaaggg ctctgaagaa tcaacggtgc tggtagagga tacaggaata aattgtatct   240
tcacctgggt cctaccctcg tccctacctg tctgatact ggtcctgaag acccctcgga   300
acacctctc ctggtggcag gccacttccc tccagtgcc agtctccatc caccagag   360
aggaacaggg ggggtggcca tgtggtttc tcttcttg cttggctgg cctctggggc   420
aggggtggtg gagagatgga agggcatcag gtgtaggac cctgccaagt ggcacctgat   480
ttactctag                               489
```

<210> 632

<211> 546

<212> DNA

<213> Homo sapiens

<400> 632

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gccaacatca ccatcattga gcaccagaag tgtgagaacg cctaccccg caacatcaca   60
gacaccatgg tgtgtgccag cgtgcaggaa gggggcaagg actcctgcca ggtgactcc   120
ggggggccctc tggctgttaa ccagtctct caaggcatta tctctgggg ccaggatccg   180
tgtgcgatca cccgaaagcc tgggtgtctac acgaaagtct gcaaatatgt ggactggatc   240
```

caggagacga tgaagaacaa ttagactgga cccacccacc acagcccatc accctccatt 300
tccacttggg gtttgggtcc tgttactct gtttaataaga aaccctaagc caagaccctc 360
tacgaacatt ctttgggcct cctggactac aggagatgct gtcacttaat aatcaacctg 420
gggttcgaaa tcagtgaagc ctggattcaa attctgcctt gaaatattgt gactctggga 480
atgacaacac ctggtttgtt ctctgttgta tccccagccc caaagacagc tcttgccat 540
atatca 546

<210> 633
<211> 493
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (87)..(87)
<223> n is a, c, g, or t
<400> 633
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cttccctgag gacataatgt gtaaganagg tgagaagtgc tccaagcag acacaacagc 120
agcacagagg tctggaggcc acacaaaaag tgatgctgc cctgggctag cctcagcaga 180
cctaaggcat ctctactccc tccagaggag ccgcccagat tctgcagtg gagaggaggt 240
cttcagcag cagcaggtct ggagggtga gaatgaacct gactagaggt tctggagata 300
cccagaggtc cccaggtca tcacttgct cagtgaagc cctcttccc caaatcctac 360
tccctcagcc tcaggcagtg gtgctccat ctctctccc acaactgtgc tcaggctggt 420
gccagcctt cagaccctgc tcccaggac ttgggtggat gcgctgatag aacatcctca 480
agacagttc ctt 493

<210> 634
<211> 489
<212> DNA
<213> Homo sapiens
<400> 634
agtattccc attatcgca gacctttt aggaagcaag ctaatggct gataatttta 60
aattctctct cttgcaggaa ggactatgaa agctagaat tgagtgtta aagtcaaca 120
tgttattgt aatagatgtt tgatagatt tctgctact tgctgctatg gtttctcca 180
agagctacat aatttagtt catataaagt atcatcagt tagaacctaa ttcaattcaa 240
agctgtgtgt ttggaagact atcttactat ttacaacag cctgacaaca ttctatagc 300
caaaaatagc taaatacctc aatcagtc agaatgtcat ttgggtactt tgggtggccac 360
ataagccatt attcactagt atgactagt gtgtctggca gtttatatt aactctctt 420
atgtctgtgg atttttct tcaaagtta ataaattat tttctggat tctgataat 480
gtgctctg 489

<210> 635
<211> 155
<212> DNA
<213> Homo sapiens
<400> 635
gcaacggaag agtctgggc ggaaggaggc ttctgtatgc ttgtgaaaa gaacaatctg 60
tgccaacgga aggttttca acaacttgc tgcaaaacat gtacattca aggctgagca 120
gccatcttag attctttgt tctgtagac ttata 155

<210> 636

<211> 355

<212> DNA

<213> Homo sapiens

<400> 636

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tgggttaagc ctgcagggat cccgggtgctc tgtctcctgt gaagatggac ggtatttcaa   60
cggccaggac tgccagccct gccaccgctt ctgcgccact tgtgctgggg caggagctga   120
tgggtgcatt aactgcacag agggctactt catggaggat gggagatgcg tgcagagctg   180
tagtatcagc tattactttg accactcttc agagaatgga tacaatcct gcaaaaaatg   240
tgatatcagt tgtttgacgt gcaatggccc aggattcaag aactgtacaa gctgccctag   300
tgggtatctc ttagacttag gaatgtgtca aatgggagcc atttgcaagg atgca       355
```

<210> 637

<211> 469

<212> DNA

<213> Homo sapiens

<400> 637

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agcctatcct taataaatcc tccactctct ggaaggagac tgaggggctt tgtaaaacat   60
tagtcagttg ctcatthta tgggattgct tagctgggct gtaaagatga aggcatcaaa   120
taaactcaaa gtattthta atthtttga taatagagaa acttcgctaa ccaactgttc   180
tttcttgagt gtatagcccc atcttggtgt aacttgctgc ttctgcactt catatccata   240
tttctattg ttactthta tctgtagagc agcctgccaa gaattthta tctgtgttt   300
ttttgtgc taaagaaagg aactaagta ggatgttaac agaaaagtcc acataaccct   360
agaattctta gtcaaggaat aattcaagtc agcctagaga ccatgttgac tttctcatg   420
tgttctcta tgactcagta agttggcaag gtcctgactt tagtcttaa       469
```

<210> 638

<211> 455

<212> DNA

<213> Homo sapiens

<400> 638

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gctctgtca ctgaattatc tccaagtgc tggcagactg aatgttgatg tcattcgagc   60
caagcaactt cttagacag atgtgagcca aggttcagac ccctttgtga aaatccagct   120
gggtcatgga ctcaaaactg tgaaaaccaa gaagacgtcc ttcttaaggg gcacaattga   180
tcctttctac aatgaatcct tcagcttcaa agttcccaa gaagaactgg aaatgccag   240
cctagtgttt acagttttcg gccacaacat gaagagcagc aatgacttca tcgggaggat   300
cgtcattggc cagtactctt caggcccctc tgagaccaac cactggaggc gcatgctcaa   360
cacgcaccgc acagccgtgg agcagtgga tagcctgagg tcccagctg agtgtgaccg   420
cgtgtctcct gcctccctgg aggtgacctg agggc       455
```

<210> 639

<211> 418

<212> DNA

<213> Homo sapiens

<400> 639

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ggaactctaa acctgtgat gactactaac aaatgtaaaa ttatgagtga ttaagaaaac   60
attgctttgt gggtatcact ttaagtttg acacctagat tatagtctta gtaatagcat   120
ccactggaaa aggtgaaaat gttttattca gcatttaact tacatttga cttagagta   180
ttttgtata aaatccatag atttattta catttagagt atttacta tgataaagtt   240
```

gtaaataatt ttctaagaca gttttatat agtctacagt tgtcctgatt tcttattgaa 300
tttgtagac tagttctctt gtctgtgat ctgtgtacaa ttttagtcac taagacttc 360
ctccaagaac taagccaact tgatgtgaaa agcacggctg tatataatgg tgatgtca 418

<210> 640

<211> 505

<212> DNA

<213> Homo sapiens

<400> 640

taagactgt actatgtgtg gccatgaact gacatatgaa aaaatgtgat ttttagttc 60
agtgcctgt ttatagaat ttatattta aataaaggaa atttagattg gtcctttca 120
aaattcaaaa aaaaaagcaa catctcata gatgaatgaa acccttgat aagtaatact 180
tcagtaataa ttatgtatgt tatggcttaa aagcaagttt cagtgaaggc cacctggcct 240
ggttgtgtgc acaatgtcat gtctgtgatt gccttcttac aacagagatg ggagctgagt 300
gctagagtag gtgcagaagt ggtaggtcag ctacaaattt gaggacaaga taccaaggca 360
aaccctagat tggggtagag ggaaaagggt tcaacaaagg ctgaactgga ttcttaacca 420
agaaacaaat aatagcaatg gtggtgcacc actgtacccc aggttctagt catgtgttt 480
ttaggacgat ttctgtctcc acgat 505

<210> 641

<211> 533

<212> DNA

<213> Homo sapiens

<400> 641

atctacaac ccacctgaa ggtataactg gatccagaga gggaaggact gacaagaagg 60
aattattcag aaaaacactg acagatgttt tataaattgt acagaaaaat agtataaat 120
gcaatagggt gaagttttcc agatatgttt ctctctgaaa ttactgtgaa tatttaacaa 180
acacttactt gatctatgtt atgaaataag tagcaaatg ccagcaaaat gtctgtgacc 240
tttctaaag tgtattttct gatgtgaact tcctccctt tacttgctag gttcaataa 300
tttaaagag tcaaacacta taaatgagta agttgacgat gtttaagat tgcacctggc 360
agtgtgcctt ttgcaacaa atatttacct ggaggtgtgc cttttgcaa caaatattta 420
ctttgcactt ggagctgctt ttaattttag caaatgttt tatgcaaggc acaataggaa 480
gtcagttctc ctgcacttcc tcctcatgta gtctggagta ctttctaaag ggc 533

<210> 642

<211> 493

<212> DNA

<213> Homo sapiens

<400> 642

ttgaacaaac cctcactgag cacctctgat gttgagcacc tgctgaatac tgagcactga 60
atgggggagg gggaggggag cacgggggtga gtcaacctgg gactcggctc cagggatatg 120
cctaccaata gcgggtatcg taaggcatgt acccaaacat aacggatgta aggcagaaag 180
tgatcggaga aggaatgaga aagtgtgcgt gatgttaatg aaaagtcata tgcagctaga 240
gcagaccag gaaagcttct tggaagagat tgcactgag gaaattcagg aaggtatctt 300
gtagattggg gggagattct aaattgaagg ggtgataggg tgaggggcca gagggaagtc 360
tgctgtgttc tcatgtagga tgtcagccct cctgcaact tctcttttg gccaatgtct 420
tttactttc ctgaccttt agaatcatcc ccagccagac gcaatcatgg aagttgcctt 480
attgtcactg gtt 493

<210> 643

<211> 555

<212> DNA

<213> Homo sapiens

<400> 643

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caccacctac ctatgatgcc gtggtacaga tggagtacct tgacatgggtg gtgaatgaaa    60
cactcagatt attcccagtt gctattagac ttgagaggac ttgcaagaaa gatgttgaaa    120
tcaatgggggt attcattccc aaaggggtcaa tgggtggatg tccaacttat gctcttcacc    180
atgacccaaa gtactggaca gagcctgagg agttccgccc tgaagggttc agtaagaaga    240
aggacagcat agatccttac atatacacac ctttgggaac tggaccaga aactgcattg    300
gcatgagggtt tgctctcatg aacatgaaac ttgctctaag cagagtcctt cagaacttct    360
ccttcaaacc ttgtaaagaa acacagatcc cttgaaatt agacacgcaa ggacttcttc    420
aaccagaaaa acccattgtt ctaaagggtgg attcaagaga tggaaacccta agtggagaat    480
gagttattct aaggacttct actttgggtct tcaagaaagc tgtgccccag aacaccagag    540
atttcaactt agtca                                     555
```

<210> 644

<211> 300

<212> DNA

<213> Homo sapiens

<400> 644

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ttctttaggg ctcttctac agccttgaga agtagatagg catcagagta tggactata    60
ggaatcagaa aaattcaaaa caaatgtgga ttaagtgttt aggtcttatg tggtctcacgc    120
agccagaatc cttagtcttg tgtgtttctg tgtctcaaga ctgggctcac attctggctt    180
tgtccataac aatgctctgg gatttcaggg agttccctca ttgtaaaat gaggggggtca    240
gagcaggtga tatccatggt tcttcccttt ctgatattgt tgtctgtggc atattctttg    300
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<210> 645

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (114)..(114)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (119)..(120)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (127)..(127)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (129)..(129)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (149)..(149)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (152)..(152)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (163)..(163)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (167)..(168)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (189)..(189)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (243)..(243)

<223> n is a, c, g, or t

<400> 645

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ttcttacttc tacaggggta gaggcctaaa aaagaacgtg ctacaaattg gttntctnn   120
agggttneng gttctccctg cccccaatnc cnatatactt tantgenntt ttattttg   180
ctttacggnc tctgtgtctt tctgcaagaa ggcctggcaa aggtatgcct gctgttggtc   240
ccntcgggat aagataaaat ataaataaaa ccttcagaac tgttttggag caaaagatag   300
cttgtaacttg gggaaaaaaa ttctaagttc ttttatatga ctaatatctt tggtagcaa   360
gactggaaag aggtgttttt ttaaaatgta cataccagaa caaagaacat acagctctct   420
gaacatttat ttttgaaca gaggtggttt ttatgtttgg acctggtaat acagatacaa   480
aaactttaat gaggtagcaa tgaatatcca actgtttgac tgctaagtg atctgtccat   540
atttagcaa g                                     551
```

<210> 646

<211> 468

<212> DNA

<213> Homo sapiens

<400> 646

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tctgcagtga gtgcaaccgc acctcccca gccacacggc tctcaaacgc cacctgcgct   60
cacatacagg cgaccacccc tacgagtgtg agttctgtgg cagctgcttc cgggatgaga   120
gcacactcaa gagccacaaa cgcattccaca cgggtgagaa accctacgag tgcaatggct   180
gtgacaagaa gttcagcctc aagcatcagc tggagacgca ctatagggtg cacacagggtg   240
agaagccctt tgagtgaag ctctgccacc agcgtcccg ggactactcg gccatgatca   300
agcacctgag aacgcacaac ggcgcctcgc cctaccagtg caccatctgc acagagtact   360
gccccagcct ctctccatg cagaagcaca tgaaggcca caagcccag gagatcccg   420
ccgactggag gatagagaag acgtacctct acctgtgcta tgtgtgaa               468
```

<210> 647

<211> 416

<212> DNA

<213> Homo sapiens

<400> 647

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tcaagtcctc tgggtgcagt tccagcgtga gggttggttc taccacttat tccggagtaa   60
ccagataaag agatgccctc tggttcatta gctctagttc tccccagca tcactaacia   120
atatgcttgg caagaccgag gtcgatttgt cccagcctta cgggagaaaa gagctatggt   180
tagttacact agctcatcct attccccag ctctttctt tctgctgttt ccaatgaag   240
tttcagatc agtggcaatc tcagttccct tgctatgacc ctgcttgggt ctttcccag   300
aaacagtta gtagtgacca ccaccacat gacattcaa gcaccacctt aagccagcca   360
gagtaggacc agttagacct aggtgtgga cagctcctg catcttaaca ctgtgc     416
```

<210> 648

<211> 555

<212> DNA

<213> Homo sapiens

<400> 648

```
tcagtgacc tgaatcttc ccttaaccgt acagttctc gatggaattg tgtgatcaga   60
aggtggaatt ctagtatag ggcacctcag accgcattc atgtctgtg tgcctcttct   120
attgcacata cactgatttt tagcattgtc tttcctatt ttctcttgc cactgtact   180
tccatatatc ttctcattaa ctacttgcct gcctttttt ttcttggtg cacatttaaa   240
taaagtaatc cttaacctgt gctgtaaagt tcacccttgg catgctgttc caagaacctg   300
gggttgaatc ccaatcgttg tgaacatac tcagtattga taaaacctt ttaataagt   360
atgcagagca gccaaagata tgttgaccca gatgtcaacc aggctatttt tatactaaa   420
acatgtcagc agagcatagg cagaataaaa tggtttaaat accccacagc aaatagagta   480
actgacaaac cacaaaaaac tgaaaccca gaccaccag aaagacaagt gtctagcaat   540
gccttggtac ctgat                                     555
```

<210> 649

<211> 343

<212> DNA

<213> Homo sapiens

<400> 649

```
ctgccagacc tgagtggctc agatggggtc ccgtatcgaa ccgtctctga gtggctcgag   60
tccatacgca tgaacgcta catcctgcac tccactcgg ctgggctgga caccatggag   120
tgtgtgctgg agctgaccgc tgaggacctg acgcagatgg gaatcacact gcccgggcac   180
cagaagcgca ttcttgcag tattcaggga tcaaggact gatccctct ctcacccat   240
gccaatcag ggtgcaagga gcaaggacgg ggccaaggtc gctcatggtc actccctgcg   300
cccttcca caacctgcca gactaggcta tcggtgctgc ttc                                     343
```

<210> 650

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (195)..(195)

<223> n is a, c, g, or t

<400> 650

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tttgattggg tattaaaaat attagaagggt gggtataatt gcagagtatt ccatgaatag   120
```

tacactgaca cagggggttt actttgagga ccagtgtagt caagggaaaa catgagttaa 180
 aaagaaaagc aggcnatatt gcagtcttga ttctgccact tacaggatag ataacgcctg 240
 aactttaatg acaagatgat ccaaccataa aggtgtctctg tgcttcacag tgaatctttt 300
 ccccatgcag gagtgtgctc ccctacaaac gttaagactg atcatttcaa aaatctatta 360
 gctatatcaa aagccttaca tttaatatata gggtgaacca aaatttcaat tccagtaact 420
 tctattgtaa ccattatt 438

<210> 651

<211> 389

<212> DNA

<213> Homo sapiens

<400> 651

tccccaagac ttactagtgc ccgataaact ttctcaaaga gcaaccagta tcacttcct 60
 gttataaaa cctctaacca tctcttggtt ctttgaacat gctgaaaacc acctggtctg 120
 catgtatgcc cgaatttgta attcttttct ctcaaatgaa aatttaattt tagggattca 180
 ttcttatatt ttcacatatg tagtattatt atttccttat atgtgtaagg tgaaatttat 240
 ggtatttgag tgtgcaagaa aatatatttt taaagcttct attttcccc cagtgaatga 300
 tttagaattt ttatgtaaa tatacagaat gtttttctt acttttataa ggaagcagct 360
 gtctaaaatg cagtgggggtt tgttttgca 389

<210> 652

<211> 385

<212> DNA

<213> Homo sapiens

<400> 652

aaacagttgc tcacctacag acagtgcac ataaattagc agaattaaaa acacatatat 60
 gtgtaacccg agcatttggt gacaactgtc tccagctgca tgaagcgaaa cgtttggact 120
 ccgccactgc ttgcatggcg aaatattggg catctgagtt acaaaatagt gtagcttacg 180
 actgtgtaca gtccatgga ggttggggat acatgtggga gtacccaatt gcaaaagctt 240
 atgtggatgc cagagttcag ccaatctatg gtggtacaaa tgaaataatg aaggagctga 300
 ttgcaagaga gattgtcttt gacaagtaga catctgcccc catcctggag tcctattaca 360
 gctaattctg tttaaatct gctca 385

<210> 653

<211> 464

<212> DNA

<213> Homo sapiens

<400> 653

gtagactcgg ctgcggagta ctaccgcctc cacttgagg gctaccacgg caccgcaggg 60
 gactccatga gctaccacag cggcagtgct ttcttgccc gtgatcgga cccaacagc 120
 ttgctcatct cctgcgctgt ctctaccga ggggcctggt ggtacaggaa ctgccactac 180
 gccaacctca acgggctcta cgggagcaca gtggaccatc agggagttag ctggtaccac 240
 tggaagggct tcgagttctc ggtgcccttc acggaaatga agctgagacc aagaaacttt 300
 cgctccccag cggggggagg ctgagctgct gccacctct ctgcacccc agtatgactg 360
 ccgagcactg aggggtcgcc ccgagagaag agccagggtc cttcaccacc cagccgctgg 420
 aggaagcctt ctctgccagc gatctgcag cactgtgtt acag 464

<210> 654

<211> 479

<212> DNA

<213> Homo sapiens

<400> 654

gaccttcccg ctgaggacag ggaagaggca acctggccag cggcggcccg ctctgggggc 60
cgggggtacgc gaccacccaa ccgagcagag gctttgggta cagaccccc agctactcga 120
cagcctacct gcctggcagc tatggctctt cccactgcaa actggaagcc ccctaccgt 180
gtccctccc tcagagtgc ctagggtcc agggggaact gctgccacc tatacccact 240
acctgcccc tggctctccc actcataca accctcccct tgctggtgcc ccatgcccc 300
taaccacct ctaacctca tggacgcaga cctcacggga cgggcctcat cctcctttt 360
taatccagca gcatccccta cccaggctg tcaaccttt ctctgttg actacagttc 420
agaggcagcc tgcagtctc ccatgatagc caggagagc cgcacaacat acaattata 479

<210> 655

<211> 469

<212> DNA

<213> Homo sapiens

<400> 655

tcacaggct ccagttattc tccatctccc agctcagctt ttctgtctg taagcctgat 60
tttcagggaag gctcttctct agtgatggag atgaccacca tcagctccag gcttctatcc 120
tgtaaccca gtaaccagt gggaagagat ttacttattc caataattcc aagtggagag 180
tgtcattgac ccgtttggg tctcatctct actctaggg gaatgaaaca ctttgagtgg 240
ccaggcctgt gtcatgtgt aattctaga gccagggaaa taaggtctga ggattcagga 300
tggggtgaaa ggtggtgtct taaaggaaaa tgaaatacaa ttagcagaat aaggggaaac 360
gagtggctgt ctctgtctgg gcaaaacaag agatgccat tactgtgagg gacccttgaa 420
gtctggactc ttaaatgggt tttgtctgat ttctgggtg catgctagg 469

<210> 656

<211> 445

<212> DNA

<213> Homo sapiens

<400> 656

aaggaagggc atccttctgc ctttttatt ttttaagct gtaaaaagag agaaaactta 60
tttgatgat tatttggtat ttgtacagt cagttctct ttgcatgga tttgtaagt 120
tatgtctaaa gagcttagt cctagaggac ctgagtctgc tatatttca tgactttcc 180
atgtatctac ctactattc aagtattagg ggtaatatat tgctgctggt aattgtatc 240
tgaaggagat ttcttctct acacccttg acttgaggat ttgagtatc tcggacctt 300
cagctgtgaa catggactct tccccactc ctcttattg ctacacggg gtattttagg 360
cagggatitg aggagcagct tcagttgtt tcccagcaa aggtctaaag ttacagtaa 420
ataaaatgtt tgaccatgcc ttcatt 445

<210> 657

<211> 535

<212> DNA

<213> Homo sapiens

<400> 657

ccatcacctt ctcaactggg aaaccctga aatgctctca gagcacctct gacgcctgaa 60
gaagttatac ctctcttc cctttacca aataaagcaa agtcaaacca tcacttgaa 120
acagtggcca ctttcaactg acctctctc gacatctagt caaccaccc aatatgccac 180
tgggtttgc tcccaattcc acccaccct ccattacaga gtcaccacg cctcctaga 240
tcaccgtccc caacacacc attgcctctc aaggccctta tctcagccc ttctgtggc 300
catttccctc agtggccaga tgattccctg ggtgagggag aactggggc accctcagag 360

gttggagcag gtcacctgct giccctggat cctggacaga tggctcagta aactgtggga 420
ctaggtgcag acctttgcct tcttgagtc ctgggtctcc tctgagaggt ctgggtggtg 480
ctctctac gcctctagag gtctctgtgt tctcatttt cctcaaaag cgggc 535

<210> 658

<211> 522

<212> DNA

<213> Homo sapiens

<400> 658

aaataggcac tcacaatgac aaccagagcc agtttctgt cttttatac atttgtcat 60
cccagagact cggattttgc ttactgtgt tcaagtagag gaaatcgtg tctgaacta 120
ttctgtacca cagcaacaa tctatgtgc ttactatca actgctgtaa tctttataa 180
aacttaccta gtccttccc ttctctatc atagctttaa acattagaat tcataggcaa 240
atcagttaaa acattaggat cataggcaaa tcagttacct tgcagaaaga gctttgtatg 300
acagacattg tctatttta ttctgtaaa atattagctg tatgaatatg attaattaa 360
caagaaaaca ttcttctcg attgacaaca gtgttagcaa ggtgcaaagc gaaactggt 420
gctcaagtgt atagaaaaca aaattctgaa tatctcaaa ttaattcggg aaaaacacat 480
tatttttca tatgtgatgt attcatgcag aacaactatc tt 522

<210> 659

<211> 567

<212> DNA

<213> Homo sapiens

<400> 659

cgttctgca agaccacgaa cacagtggag cctctgaggg ggaatctggt gaagaaggac 60
tgtcggaggt cgtgcacacc cagctacacc ctgcaaggcc aggtcagcag cggcaccagc 120
tccaccaggt gctgccagga ggacctgtgc aatgagaagc tgcacaacgc tgcaccacc 180
cgcaccgccc tgcaccacag tgcctcagc ctggggctgg ccctgagcct cctggccgtc 240
atcttagccc ccagcctgtg accttcccc cagggaaggc ccctcatgcc ttcttccc 300
ttctctggg gattccacac ctcttccc cagccggcaa cgggggtgcc aggagcccca 360
ggctgagggc ttccccgaaa gtctgggacc aggtccaggt gggcatggaa tctgatgac 420
ttggagcagg cccacagac cccacagagg atgaagccac cccacagagg atgcagcccc 480
cagctgcatg gaaggtggag gacagaagcc ctgtggatcc ccgatttca cactcctct 540
gtttgttg cgtttattt ttactca 567

<210> 660

<211> 392

<212> DNA

<213> Homo sapiens

<400> 660

ggctggctca agaagcacgc gtactgtcc aacctcagct tccgcctcta cgaccagtgg 60
cgagcctgga tgcagaagtc gcacaagacc cgcaaccagg acgaggggat cctgccctcg 120
ggcagacggg gcacggcgag aggtcctgcc agataagctg taggggtca ggccaccctc 180
cctgccacgt ggagacgcag aggccgaacc caaactgggg ccaccttgt accctcactt 240
cagggcacct gagccacct cagcaggagc tgggggtggc cctgagctcc aacggccata 300
acagctctga ctcccacgtg aggccacctt tgggtgcacc ccagtgggtg tgtgtgtgtg 360
tgtgaggggt ggttgagttg cctagaacct ct 392

<210> 661

<211> 196

<212> DNA

<213> Homo sapiens

<400> 661

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tttcataac tgagcccact cgcaagtgg agccatcagt gggatacgcc acattttgga 60
agccccagca tcgtgtactt accagtgtgt tcacaaatg aaatttgtgt gagagctgta 120
cattaaaaaa aacatcatta ttattattat ttgcagtcac ggagaaccac ctaccctga 180
cttctgttta gtctcc 196
```

<210> 662

<211> 489

<212> DNA

<213> Homo sapiens

<400> 662

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aaagcccttc atctaattt ttgtgctatt gccaatttt caatgaaatg acctaaaaac 60
aacaaaaaaa aataacctat acggtagttg ctttaggggg tgggggggatg ctatctgtta 120
gtgcttaaaa gggggtaaat gcttgccgct ttgaggtgg atggtgtcga taaaaggccc 180
cagtcggggg tatftaaaa ggactgaaca gaaatcctta gctagtagaa tggcagcacg 240
ctgtaaaatt attactgtat tgtgtactgg ctataagatg tagacacctt tcagtaagcc 300
aatcatttgt aaccattcta gcagtgtcat attaggttaa taaggctgct gtgttttaa 360
gggcattttt atttgggtt ttgtgaaatt cttaatttg ttgattatat tcacataaaa 420
tcagcattca ttgacacata gctctaata catatgtatg aaaaaccata cactggatga 480
cctagtcca 489
```

<210> 663

<211> 386

<212> DNA

<213> Homo sapiens

<400> 663

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cgccctggca cgggtgctgag aattcgcggc ttggttcctc ccaatgccag caggttccat 60
gtaaacctgc tgtgcgggga ggagcagggc tccgatgccg ccctgcattt caacccccgg 120
ctggacacgt cggagggtgt ctcaacagc aaggagcaag gctcctgggg ccgcgaggag 180
cgcggggccgg gcgttcctt ccagcgcggg cagcccttcg aggtgtcat catcgctca 240
gacgacggct tcaaggccgt ggttggggac gcccagtag accactccg ccaccgctg 300
ccgctggcgc gcgtgcgcct ggtggagggt ggcggggacg tgcagctgga ctccgtgagg 360
atcttctgag cagaagccca ggcggc 386
```

<210> 664

<211> 523

<212> DNA

<213> Homo sapiens

<400> 664

```
gagaggcat atgcatctc tgtctgac taggtgtcta tagctgagg gtaagaggtt 60
gttgtagttg tcttggtgcc tccatcacac tctccctact tgtcccatat ttgcaagggg 120
aggggatttg gggctggggc tccattcacc aaagtgagg ttgcttctca ttaaccctt 180
aggactctga agggatgga cctacgtgaa tgtgtgtcag ggggagactt gctggtgggt 240
tagtggctct caggatgta taaaacatc cagtgtaaaa aggaagtgg aatgggagtt 300
ggcgggcagt gaacgagtgt ggggaaggat ttgtgctggg gcaacaggaa ggggcctggg 360
gccgtttggc tgcactaact ttggtagctc agtgtgcatc taaagtggga ctggggaggg 420
agctaagctt gggctgggct gcttggggct tggcataggg tggaagggc taccctgggg 480
cttctgaccc ccctgtagta tgtgtggagg gtgccctccc gtc 523
```

<210> 665

<211> 446

<212> DNA

<213> Homo sapiens

<400> 665

```
aagagggccc agcaaggtaa ttatgggtg agctgatgtc aattggttct tgtcttgagt   60
cgactcaatt tagcccaagt gctgaacaa gaaatgtcat tttttcatc aaagacacca   120
gggcagattt ttaagtaaag aaagacaatt ggacccttaa gaatttatgc atttgtaaag   180
ttgctgttga tccaaatatt tcaagccat gtaatccatt ggttttgtgg gcagttaat   240
aaactgaac ctttgtgtg ttctaattg tacctgagtt gaccatcctt tcttttata   300
gtatatttct tgtatgatat ttgtaaagc ttcacctgg ttctttatg gggactttc   360
gttttgggc aactccagt tatttatgtg aaactttata agagaattaa ttttccatt   420
tgcataataa tatgttcctc cacaca                                     446
```

<210> 666

<211> 554

<212> DNA

<213> Homo sapiens

<400> 666

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gttttggtt tgactcacct gaaagtttt ttggtttaa agaagaatag gcggggcacg   60
gtggctcatg cctgtaatcc cagcactttg ggaggctgag gcagggtgat cagagggtca   120
ggagatgcag accatcctgg ctaacacggt gaaaccccg ctctactaaa aaatacaaaa   180
aattagctgg gtgtggtggt gggggtgggc gcctgtgac ccagctacgt gggaggctga   240
ggcagcagac tgggtgaac ccgggagggt gagcttcag tgagccgaga tcgcgccact   300
gcactccagc ctgggcgaca gagcgagact ccattcmeta aaaaaaaaaa aaaaaaagaa   360
agaaagaaaa ataatttgg gagtttctgg aaaggtacta ggatttctca aaaggatttg   420
tcttccct tgtgaaagac agatgtcaga ctaatcaggc ttatccgatg tgctacatga   480
gatggaaatg cgtgtgaaat agtaagtcac actaagtctt ctggagggtc tatttacggg   540
tttggttga tatg                                     554
```

<210> 667

<211> 504

<212> DNA

<213> Homo sapiens

<400> 667

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gaaagagcta gattctctct ctcaaaaaa aaaaaaaaaa ggaaagaaag aaagaaaaga   60
aaagaaaatc ccttttgct ttaactgcc ctgcagggt ttagaaaact caattgttga   120
aatttgggtg gataaattc tggatttct atctattcca tgttgacca ataccacact   180
gccctagtca ctgttcatt atagtatc tttaaaggag taatgggaat cttcaacta   240
cattttttc cccaataatt ttggctatt ctgctcttt tgtgttcta tgtaaatttt   300
atcatcagtg tgtctattc tacaatagt cctgataggg ttgaattgg gatttctgtg   360
aatctataga tcaatctgag gagacttaat aatgatattg atttcccaa ttcataaata   420
tagtatacc cttgtattt ttgtttctt gaatttctt tatcattgtt ttgtagtttt   480
caccatgaca gtctgcaca tatt                                     504
```

<210> 668

<211> 342

<212> DNA

<213> Homo sapiens

<400> 668

caaaggcatt acctgcctca tcgatattat aggggtccat cacaacccaa ctgtgtggcc 60
ggatcctgag gtctacgacc ccttccgctt tgaccagag aacagcaagg ggaggtcacc 120
tctggctttt attcctttct ccgcagggcc caggaactgc atcgggcagg cgttcgcat 180
ggcggagatg aaagtgggcc tggcgtgat gctgctgcac ttccgggtcc tgccagacca 240
cactgagccc cgcaggaagc tggaattgat catgcgcgcc gagggcgggc ttggctgcg 300
ggtggagccc ctgaatgtag gctgcagtg actttctgac cc 342

<210> 669

<211> 463

<212> DNA

<213> Homo sapiens

<400> 669

gagagattat ttctgtggtc taaaggtaa aaagccaaca acctgttacc aattattca 60
gcttttttg tttaataag tgtgacaact taaaacttgt ttctatttaa agtgaaatgt 120
atctttcaac tgtttagta cccagctgtt taatattcca gtcttccaa agtgaaaaga 180
ttgtataca aatgtttct atgatttaaat aaaaatatat ggcacaaaaa accacttcgc 240
cgggtcgcgc ccgacggcc gggcccgga gacgcgcgg cagccccggc acctgccaa 300
agtttcaaac cgggaaaaat aaacgtaagc taaggatccc ccccatgtat ccaacctcat 360
gctctatggg acccaggcca tccccgtgag gttctccaga tcttccatgc ctggacgaa 420
aggtgttga tcaactgtgc atcatgacac caaatctata gtt 463

<210> 670

<211> 459

<212> DNA

<213> Homo sapiens

<400> 670

tgagcctggg gttctggtgt tagaatattt ttaagtaggc ttactgaga gaaactaaat 60
attggcatat gttatcagca acttcccctg ttcaatagta tgggaaaaat aagatgactg 120
ggaaaaagac acaccacac cgtagaacat atattaatct actggcgaat gggaaaggag 180
accattttct tagaaagcaa ataaactga ttttttaa tctaaaattt acattaatga 240
gtgcaaaata acacataaaa tgaaaattca cacatcacat tttctggaa aacagacgga 300
tttacttct ggagacatgg catacgggta ctgacttatg agctacaaa actaaattct 360
ttctctgcta ttaactggct agaagacatt catctatttt tcaaatgttc ttcaaaaaca 420
ttttataag taatgttgt atctatttca tgctttact 459

<210> 671

<211> 265

<212> DNA

<213> Homo sapiens

<400> 671

ccggaaccga cgagtcctga ggagagaacc ggtgcgtcct gaggagagaa ccggcgtg 60
gcaacacggg cctgcaaaact cgacaggacc ctgcccagg ggccctcgcg ccaacctgga 120
ccggtccccg cctcctccg tgcccaatct ctcagacca cccacctgc aggcccagac 180
cacgtgggac agaactcctg cccacctac cccgagggag gcgaaccgc acttccaggc 240
ttgggaggac catggggcac aatgc 265

<210> 672

<211> 478

<212> DNA

<213> Homo sapiens

<400> 672

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gagtggaaatg cttcctagaa gttactgaat gcaccatggt caaaacggat tagggcattt   60
gagaaatgca tattgtatta ctagaagatg aatacaaaaca atggaaactg aatgctccag   120
tcaacaaact atttcttata tatgtgaaca ttatcaatc agtataattc tgtactgatt   180
tttgaagac aatccatgta aggtatcagt tgcaataata ctctcaaac ctgtttaaatt   240
atttcaagac attaaatcta tgaagtatat aatggtttca aagattcaaa attgacattg   300
cttactgtc aaaataattt tatggctcac tatgaatcta ttactactgta ttaagagtga   360
aaattgtctt ctctgtgct ggagatgttt tagagttaac aatgatatat ggataatgcc   420
ggtgagaata agagagtcac aaaccttaag taagcaacag cataacaagg tccaagat   478
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<210> 673

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (215)..(215)

<223> n is a, c, g, or t

<400> 673

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caacttctga taggtctgtc attgaaagag atatgtgcac ttactgccga aaaccttg   120
gtgtagaaac taaaatgatt ttagatgaat tacaaatttg ctgccattct acttgcctta   180
agtgtgaaat atgcaagcag cctttggaaa atctncaagc gggtgatagt atttggattt   240
atagacagac aatacactgt gaaccttgct actctaaaat tatggcaaag tggattccat   300
aactctggca caaggaaatc aagatgaaaa gcactcatta aggaattaaa gttacaagtt   360
ttatcttaat aatatgtaat ctagaaaagc ttacacattg aagatcaact cttgtacaaa   420
attaacaatt ctgttattgc ataagtaatc taattgtctt caataaggct acacacataa   480
aaagagccat ctggtctctg gctagagtta gca                               513
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<210> 674

<211> 514

<212> DNA

<213> Homo sapiens

<400> 674

```
gaatatttcc cacaagatgc tgcaatgtga gttatcactt catttatctt aaagaaagac   60
taaactgggtt gtcagttaca tctgacagaa aaaaaaaaaa aatcactgtg taaccagggt   120
aagtggtaaa ataattcagg gcgtcagtc aaggcatttt gctgacttta atattgatta   180
tatttttaac aggggaattt agggaaatat tacctgggaa ttaaaaaata tatatatatt   240
aaaacaagaa ttttcctttg cctctgtcta gcttaaacct actacctcaa gctgcttaag   300
ttccttaagt attgtttgta atcaccaata aataagtgca ttgtaatc atcagtcatt   360
attagctttt attaaaagaa gattacgttt tacaatgtaa ctataatctc ttgaatttgg   420
tatcttatta atgagtttta aagatgtaaa acctaaccct tttaaagct ccattgtctt   480
atgtttttag aggcctttcc gtaaacatat atct                               514
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<210> 675

<211> 387

<212> DNA

<213> Homo sapiens

<400> 675

tccagcggag gccacaagtc ctcctcttcc ggggtccgtgg gcgagtcttc atctaaggga 60
ccaagatact aacaaaacca gagtaatcaa gacaattatt gaagagggtgg cgcccgacgg 120
tagagttctt tcattctacgg ttgaatcaga aaccaagaaa cactactatt aaactgcatg 180
aatctccctt cacacagacc attatttaca gatgcatgga aaacaaagtc tccaagaaaa 240
cacttctgtc ttgatggctc atggaaatag accttgaaaa taagggtgtc acaagggtgt 300
ttgtggtttc cgtatttctt cttttcactt taccagaaag tgttctttaa tggaaagaaa 360
aacaacttcc tgttctcatt tactaat 387

<210> 676

<211> 520

<212> DNA

<213> Homo sapiens

<400> 676

ttcaccatgg accgggaagt gcgcaaaatc aaacaaggcc tgggcttgaa atttgcctgag 60
ctgggtgata cgggtttacg gcctagccct gagtgtgaat ttgtccgcca ctgcatcgcc 120
aagtcacagg agcgagtga agggaaagtg cagggtgtccg tcctcaaggg ccagggtgtac 180
atcctcgccc gggagtcctc actgtctctc tacaatgagg agctgggtgag catgaacgtg 240
cagggtgatt atgagccaac tgatgccacc ggggtcatca acatcaattc cctcaggctg 300
aaggaatata atcgtctcca gagcaaggtc actgccaaat agaccctgtg acaatgagga 360
gctggggcct cctcaatttg catatccccc aagtacaggc gctaattgtt gtgataattt 420
gtaattgtga cttgttctcc ccggctggca gcgtagtggg gctgccaggc cccagctttg 480
ttccctggtc cccctgaagc ctgcaaactg tgtcatcgaa 520

<210> 677

<211> 465

<212> DNA

<213> Homo sapiens

<400> 677

gcactatggt ttgtgccta cctagctgca tctataatgt cagcttatcc taaggctgtc 60
cacgtactta attacttaa gtgttcattt taagtaactg gtcactgtg tataggaatt 120
tgtattttgg aggtgcttga tctatctaca aaagaaaaaa ttaattagga attactttat 180
tataaaatgc tcctagaagt ctttaattgtg ttattttttt aaaaaaacaa atgttagact 240
tgtgtgcatg gaagtaatta aggtacatca ttattgtagt ttgaaagttg tacatgataa 300
gacattttgt tttactgta tgtttttact gaatgatcta ttcccatcc caaggcaagc 360
atgaataaaa ttagggtaaa cgtagcatgt ggcatcgag tctcttagaa ttgtttcat 420
ctattttatt ttattgaata ctgtctgtat ctttggttat cctgt 465

<210> 678

<211> 548

<212> DNA

<213> Homo sapiens

<400> 678

agtctgctga agaggcattg cacagatcaa acaaggatgg atcatttctt attcgaaaa 60
gctctggcca tgattccaaa caaccatata cactagttgt attctttaat aagcgagtat 120
ataatattcc tgtgcgattt attgaagcaa caaaacaata tgccttgggc agaaagaaaa 180
atgggtgaaga gtactttgga agtgttgctg aaatcatcag gaatcatcaa catagtcctt 240
tggttcttat tgacagtcag aataacacaa aagattccac cagactgaag tatgcagtta 300
aagtttcata aagggggaaa aaaaagatca ataccattgc ttcagacact ttcccaaagt 360
ttctcccttt gagaaaaagt cccaaaactt cataattttg attatgaatc atccagtaat 420

aaaatggaag atggagtcag ctattgaagt ggtcatccat ttcttttaa gaagctcatg 480
tggacttggt ctattgcctg acctgatgaa ctgttaatat ctggtgaggt tgagttatca 540
tgctacta 548

<210> 679

<211> 345

<212> DNA

<213> Homo sapiens

<400> 679

gggattggca gcggtgcat catcagtggc gggggctccg tctgcggagg tggttcctct 60
ggaggcggcg gcggcggctc ctccgtgggt ggctccggga gtggcaaggc cgtcccgc 120
tgccaccaga cccagcagaa gcaggcgcct acctggccgt ccaaatagat ccccagggt 180
accacggagg cgaaggaggt ggagggtgtt tccaggggca ccgatgggt tagagctctc 240
atgatgctac ccgagggttg caaatcctc atgtctaac ctacctggaa gaagccattg 300
agctctccgg ctgcactag ttctgctgt tagcctctt gggt 345

<210> 680

<211> 474

<212> DNA

<213> Homo sapiens

<400> 680

ttattctag cgtcactggt ctggtttca gaattaacat acaagggtgc cacacctagt 60
tctgccagc ttatgtct ttattccagt attccacaa agttgttt cctgcattcc 120
agttctcaag tcttaagata aagattgtac ttgacagtt agtatatcca taaaactatt 180
tgagggtggt aagggtctg ggttcattt ccttaatact ttgctgaata tttagattg 240
taggcaatga aaaagtctac taaattagga aaacctgaa taattaggta tcctaggtaa 300
gagccccaa acatcaagca atctgtgagt ctgtaaagaa ataaatatt ttggattat 360
tcttatctaa ttccaccct gttggaagat gatttcttg ttcttgcaa ctatggaagc 420
tgtgaaaac atcacaagtg cctctgaaag cgagtgttag gttggttaga gggt 474

<210> 681

<211> 479

<212> DNA

<213> Homo sapiens

<400> 681

gctggagggt acgctactga gaacttgag gatgtcgggc actctacaga tgccaggga 60
atgtccaaaa cattcatcat tggggagctc catccagatg acagacaaa gttaaacaag 120
cctccagaac ctaaaggcg gtgttcaag gaaactctta tcaactat tgattctagt 180
tccagttggt ggaccaactg ggtgatccct gccatctctg cagtggccgt cgccttgatg 240
tatgcctat acatggcaga ggactgaaca cctctcaga agtcagcgca ggaagagcct 300
gctttggaca cgggagaaaa gaagccattg ctaactact caactgacag aaacctcac 360
ttgaaaacaa tgattttaat atatctttt cttttcttc cgacattaga aacaaaacaa 420
aaagaactgt ctttctgcg ctcaaattt tcgagtgtgc cttttattc atctactt 479

<210> 682

<211> 460

<212> DNA

<213> Homo sapiens

<400> 682

tgaagctttt ggtccagcg tgacctctc tttagataa agatgagccc ccaccaccac 60

cgactctccc aaccagact ctcccactcc agaattgtaga agcctgtctc tgtaccteta 120
 actggcagca agttaaattt ttgtcattta tctctgatgg cactttgagg gaaaagaatg 180
 tccacataca gtttttgaag gatcttctct ccaaacagct tagttagagc cagtgcagcc 240
 tctgtgttct ggggcggaat ctgtgtgtgc taggtttgtg cttctagcca tgcccattcc 300
 cgccccacc atgcctcttt gcattgcccc tttccagat gtgtattctg ttgaggaccc 360
 aggcccatcc agggatttca tctctaagcc tggcagtgct ggggggaaat gtgtttctgt 420
 gtatatagct cctctgtcc actctgcttt cggaagtgtc 460

<210> 683

<211> 493

<212> DNA

<213> Homo sapiens

<400> 683

gtgagttatc acttcattta tcttaaagaa agactaaact ggtgtcagc tacatctgac 60
 agaaaaaaaa aaaaaaatca ctgtgtaacc aggggttaagt ggtaaaata atcGagggcg 120
 tcagtcaaag gcattttgct gactttaata ttgattatat tttaacagg gaatttaagg 180
 aaaatattac cggggaatta aaaaatatat atatattaaa acaagaattt tcctttgcc 240
 ctgtccagcc taaacctacc tacctcaagg ctgcctaagt tctaagtat tgtttgta 300
 cacccaataa ataagtgcac ttgtaattca tcagtcatta ttgctttta ttaaagaag 360
 attacgtttt acaatgtaac tataatctct tgaatttggc atcttattaa tgagttttaa 420
 agatgtaaaa cctaaccctt ttaaagctc cattgtctta tgtttttaga ggcttttccg 480
 taaacatata tct 493

<210> 684

<211> 343

<212> DNA

<213> Homo sapiens

<400> 684

aaggaagagt ctaggtgag caacatgaag gggccccaa ccttctgcag cctctgctg 60
 ctgtcattgc tctgagccc agacctaca gcagcattcc tactgccacc cagcactgcc 120
 tgtgtactc agctctaccg aaagccactc tcagacaagc tactgaggaa ggtcatccag 180
 gtggaaactgc aggaggctga cggggactgt cacctccagg cttctgtgct tcacctggct 240
 caacgcagca tctgcatcca ccccagaac ccagcctgt cacagtgggt tgagcaccaa 300
 gagagaaagc tccatgggac tctgcccaag ctgaattttg gga 343

<210> 685

<211> 522

<212> DNA

<213> Homo sapiens

<400> 685

ctaaaatttg ttaccatc attgcttct tttacagga cgaattgagg cttaaacttt 60
 actgtaatg atactggtc atttaattgt gcttgttggc atgttgctat tttcatttc 120
 atagctttca aaaatcatgc taattgtata cttgtctagt ttaaggctat ttaaaaatat 180
 gtacaatact attcacagca tttagttcgt ttaattttta ttataagca atctactaaa 240
 aaagtacaac tgtatttgaa cttttcaata gttgtttgtg agctatgata atcaaaagtc 300
 attaaagtct ttttaacaa acattcgtgc ttactttca acataattcc cagttatata 360
 cagaaaaaga ttccacctg tcacgtatct gcctcttta cctgagcaat ggtgtagttc 420
 ttgacctaa ggtctgtaat tgcaatactt ttaaagaaag atgttgctct aagtgcgttt 480
 tgttagttat gaaatcagat tttctgctt gttcttaatg ct 522

<210> 686

<211> 555

<212> DNA

<213> Homo sapiens

<400> 686

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cattactac agtgtctcag ccttgataaa gggcagtgga ttgcctgttg ttcggtgttg   60
tgaatagcac ctctgaataa gattagagtg tttcttaatt catttcaaac tctaaaatta  120
gattaatggt ggtgctaaga aagagtatta attactttgg gaatggtaa aattaacatt  180
aaaaacattt tagacaaaaa gtttcattgt acattcaaag aaaatgtaag ttggaagta  240
ctaaaagact atttatact tgttgattaa tcggaatgtt tgtgtatgc cttcatttc   300
catttcactt atatgtgcat gtccatatat gtaattttc attgtagcaa agctaatgga  360
aataagcta atgctctagt tgaagaaaaa ggaaaactcc tgaatccta gaatgtctg  420
ttatttttag ctgactgtaa aatattatga acagtctttg tgtattgtgc ttaatgcttt  480
tgaagaaac agaatttgaa atatttcac cttgtcatgc tcaaaattt gttacatgct  540
tgttattcag agtat                                     555
```

<210> 687

<211> 455

<212> DNA

<213> Homo sapiens

<400> 687

```
gaaatttttg tcactcccag aggtgagaca agccatccac gtggggaatc agacttttaa   60
tgaatggaact atagttgaaa agtacttgcg agaagataca gtacagtcag ttaagccatg  120
gttaactgaa atcatgaata attataaggt tctgatctac aatggccaac tggacatcat  180
cgtggcagct gccctgacag agcactcctt gatgggcatg gactggaaag gatcccagga  240
atacaagaag gcagaaaaaa aagtttgaa gatccttaaa tctgacagtg aatggctgg  300
ttacatccgg caagcgggtg actcccatca ggtaattatt cgaggtggag gacatatttt  360
accctatgac cagcctctga gagcttttga catgattaat cgattcattt atggaaaagg  420
atgggacctt tatgttggat aaactacctt cccga                                     455
```

<210> 688

<211> 382

<212> DNA

<213> Homo sapiens

<400> 688

```
gatagcaaac actgggggca ccttaagatt ttgcacctgt aaagtgcctt acagggtaac   60
tgtgtgaat gcttagatg aggaaatgat cccaagtgg tgaatgacac gcctaaggtc  120
acagctagtt tgagccagtt agactagtcc cccggtctcc cgattccaa ctgagtgtta  180
ttgcacact gcactgtttt caaataacga tttatgaaa tgacctctgt cctccctctg  240
attttcata ttttctaaa gtttcgttc tgttttttaa taaaagcct ttcctcctg   300
gaacagaaga cagctgctgg gtcaggccac ccctaggaac tcagtcctgt actctggggt  360
gctgcctgaa tcattaaaa at                                     382
```

<210> 689

<211> 451

<212> DNA

<213> Homo sapiens

<400> 689

```
agcaggtctc ccacagtaaa tgggtgggaga agccgggcct acatgcccc gcggagccgc   60
agccgggacg acctctatga ccaagacgac tcgagggact tcccacgctc ccgggacccc  120
```

cactacgacg acttcaggtc tcgggagcgc cctcctgccg accccaggtc ccaccaccac 180
cgtacccggg accctcggga caacggctcc aggtccgggg acctccccta tgatgggcgg 240
ctactggagg aggtctgtag gaagaagggg tcggaggaga ggaggagacc ccacaaggag 300
gaggaggaag aggcctacta cccgcccgcg ccgccccctg actcggagac cgactcgag 360
gcgtcccag agcgcaggct caagaagaac ttggccctga gtcgggaaag ttagtcgtc 420
tgatctgacg tttctacgt agcttttgta t 451

<210> 690

<211> 358

<212> DNA

<213> Homo sapiens

<400> 690

ggagcagtgg actgccacaa gccaccatgt aaccctctc acctgccgtg cgttctggct 60
gtggaccagt aggactcaag gtggacgtgc gttctgcctt ccttgtaat ttgtaataa 120
ttggagaaga tttatgtcag cacacactta cagagcacia atgcagtata taggtgctgg 180
atgtatgtaa atatattcaa attatgtata aatatatatt atatattac aaggagtat 240
ttttgtatt gattttaaat ggatgtccca atgcacctag aaaattggtc tctcttttt 300
taatagctat ttgctaaatg ctgttcttac acataatttc ttaattttca ccgagcag 358

<210> 691

<211> 473

<212> DNA

<213> Homo sapiens

<400> 691

cccctgaacg tgtttgcga catggagact gatgggggag gctggctggt gttccagcgc 60
cgcatggatg gacagacaga ctctggagg gactgggagg actatgccca tggttttggg 120
aacatctctg gagagtctg gctgggcaat gaggccctgc acagcctgac acaggcaggt 180
gactactcca tgcgcgtgga cctgcgggct ggggacgagg ctgtgttcgc ccagtacgac 240
tcctccacg tagactcggc tgcggagtac taccgcctcc acttgaggagg ctaccacggc 300
accgcagggg actccatgag ctaccacagc ggcagtgtct tctctgcccg tgatcgggac 360
cccaacagct tgctcatctc ctgcgtgtc tctaccgag gggcctgggt gtacaggaac 420
tgccactacg ccaacctcaa cgggctctac gggagcacag tggaccatca ggg 473

<210> 692

<211> 521

<212> DNA

<213> Homo sapiens

<400> 692

tagcccttgt ttttaacaca cgctccagcc ctcatcagc ctgggcagtc ttacaaaat 60
gtttaaagt atctcagagg ggcccatgga ttaacgcct catccaagg tccgtccat 120
gacataacac tccacaccg cccagccaa ctcatgggt cacttttct ggaaaataat 180
gatctgtaca gacaggacag aatgaaactc tgcgggtctt tggcctgaaa gttgggaatg 240
gttgggggag agaagggcag cagcttattg gtggtcttt caccattggc agaaacagtg 300
agagctgtgt ggtgcagaaa tccagaaatg aggtgtaggg aattttgcct gccttcctgc 360
agacctgagc tggctttgga atgaggtaa agtgtcaggg acgttcctg agcccaaatg 420
tgtagtgtgg tctgggcagg cagacctta ggttttctg cttagtcctg aggaagtggc 480
cactctgtg gcaggtgtag tatctggggc gagtgtggg g 521

<210> 693

<211> 388

<212> DNA

<213> Homo sapiens

<400> 693

```
ctgggattac aggcttgagc ccccgcgccc agccatcaaa atgcttttta ttctgcata   60
tgtttgaata ctttttcaaa tttaaaaaaa tgatctgttt tgaaggcaaa attgcaaatac  120
ttgaaattaa gaaggcaaaa tgtaaaggag tcaaaactata aatcaagtat ttgggaagtg   180
aagactggaa gctaatttgc ataaattcac aaacttttat actctttctg tatatacatt  240
tttttcttt aaaaaacaac tatggatcag aatagccaca tttagaacac ttttggttat   300
cagtcaatat ttttagatag ttagaacctg gtcctaagcc taaaagtggg cttgattctg   360
cagtaaatct tttacaactg cctcgaca                               388
```

<210> 694

<211> 565

<212> DNA

<213> Homo sapiens

<400> 694

```
aatgctcaga agttgcctat gtgtgacaaa tgtggcactg ggattgttgg tgtgtttgtg   60
aagctgcggg accgtcacgc ccaccctgag tgttatgtgt gcactgactg tggcaccaac  120
ctgaaacaga agggccattt ctttgtggag gatcaaatct actgtgagaa gcatgcccg   180
gagcgagtca caccacctga gggttatgaa gtggtcactg tgttcccaa gtgagccagc   240
agatctgacc actgttctcc agcaggcctc tgcctgcagct tttctctca gtgtctggc   300
cctctcctct ctgaaagt ctctgcttac ttggttttt cctctgcttg taaaacattg   360
agtccccctc ctgccttggc taattgactc acaccagctg tgcgatgccc gcttttaca   420
ttaaaggaaa actgttttgt tcagtgtcac ctgtcagca acactgtgtc cttcgcccc   480
accgttcttc tctgtgcat ttggacatca gccaaattg aaccaatca aatataacgt   540
gtctgacact gattttgttt ttact                               565
```

<210> 695

<211> 564

<212> DNA

<213> Homo sapiens

<400> 695

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tagaccatct ccatttttag cacttggcag cctcatgac cttttataaa tgtgagatta   60
acaggagagc agcaatacga ttttgccaat ggaataacag atttgccggc attcactgaa  120
agagggcgaga tattgggtcc ttgtaacttc aactgactct tccaaattgt atgaatttat   180
caatgtatta cacaaatcca gtttcagaat gataaaaaat gttagaccaa ataatgcggc   240
taattaacag tcgtatgatt tctagcccat gggtttaaaa ctgtatctta aagagtcatt   300
ttaaaataat ataaatatta aaaaatgtaa ctgctatctt aatgttctga aataaaacat   360
ttaaaatat aaatcctgta gtttaaaagg aagaaatggt gggaaggaaa agtagagaaa   420
gaaatgccaa ttacaggcca aagcgttatt tgccaagttt tcttagaatg aattttacca   480
atgtatgagt tcttgtaac agaattgtga acggaaatac tgaaagactt ttgcttaaag   540
tggcattatt gactgctgat gtga                               564
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<210> 696

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (431)..(431)

<223> n is a, c, g, or t

<400> 696

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cactgtgcac ttagccatga tggcaacaga aaccaagaga cacaattacg caggtattta  120
gaagcagagg gacaaccaga agggcccttaa ctatcaccag tgcatacat ctgcacactc  180
tcttctccat tccctagcag gaacttctag ctcatTTaac agataaagaa actgaggccc  240
acggtttcag ctagacaatg atttggccag gcctagtaac caaggccctg tctctggcta  300
ctccctggac cagcaggctg attcctctca ttccagctt ctcaGttct gcctgggcaa  360
tggccagggg ccaggagtgg ggagagtgt gatggagggg agaggggtca caccacccc  420
ctgcctggtt ntaggctgt gcacaccaag gccctgcatc tgtctgctct gcatatatgt  480
```

<210> 697

<211> 525

<212> DNA

<213> Homo sapiens

<400> 697

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atttagtcaa ctggcccaag gcagcgaggc ttctacagtc ccacacccca tagccgcctg   60
ggctggggct tactgggggc tgaaggttct ggacatgaac aagggtcagg tagaagagaa  120
aggctcccc tacacccag cctctgctg tccctgaag cccaggactg cgttgtatgc  180
tttccatcca ctaccttac cccatagcat ctgCGggccc agaaaccaga gccattgtc  240
tcagacccta aatcaataat cacaaccccc aaaacgggag agagcagtga aaacatgcag  300
ggctgtggac gggggaaggg ttgtggcggg tgttctgagg ctgagaggac acctatatgc  360
gtatttctc tacacacatc accccccttc tataatctta agccatgact agcctggtgg  420
cgtgttagtt tctgccagt tctacccct catgtgcttc ttctgaatac tgaatgtgac  480
tgtttgaag ctggtagaat tcatccctct tactgtagat aacac                    525
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<210> 698

<211> 552

<212> DNA

<213> Homo sapiens

<400> 698

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atgtcatcgg tatttcaacc ggagtaaatt gctagatttc tgcaagtcga aagatattgt   60
tctggttccc tatagtgtct tgggatctca acgagacaaa cgatgggtgg acccgaactc  120
cccgtgtctc ttggaggacc cagtcctttg tgccctggca aaaaagcaca agcgaacccc  180
agccctgatt gcctgcgct accagctgca gcgtgggggt gtggtcctgg ccaagagcta  240
caatgagcag cgcatacagc agaacgtgca ggtttttgag ttccagttga ctgcagagga  300
catgaaagcc atagatggcc tagacagaaa tctccactat ttaacagtg atagttttgc  360
tagccacctt aattatccat attcagatga atattaacat ggagggttt gcctgatgtc  420
taccagaagc cctgtgtgtg gatggtgacg cagaggacgt ctctatgccg gtgactggac  480
atatcacctc tactaaatc cgtcctgttt agcgacttca gtcaactaca gctgagtcca  540
taggccagaa ag                    552
```

<210> 699

<211> 503

<212> DNA

<213> Homo sapiens

<400> 699

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ttacagtga gtttagttaa tctattaata ctgactcagt gtctgccttt aaatataaat   60
gatagtgtga aaacttaagg aagcaaatgc tacatatatg caatataaaa tagtaatgtg  120
```

atgctgatgc tgtaaccaa agggcagaat aaataagcaa aatgccaaaa ggggtcttaa 180
 ttgaaatgaa aatttaattt tgttttaaa atattgtta tctttatta ttgggggta 240
 atattgtaag tttttagaa gacaatttc ataactgat aaattatagt ttgtttgtt 300
 agaaaagtag ctcttaaaag atgtaaatag atgacaaacg atgtaataa tttgtaaga 360
 ggcttcaaaa tgtttatagc tggaaacaca cctacatgaa aagcagaaat cgggtgctgt 420
 ttgcttctt ttccctctt attttgtat tgtggtcatt tcctatgcaa ataatggagc 480
 aaacagctgt atagttgtag aat 503

<210> 700

<21 1> 497

<212> DNA

<213> Homo sapiens

<400> 700

gtgaaacaat tccaggcat gccccctgc acatacaca tgccaagtca gtttctcca 60
 caacaggcca ctactttcc cccgtacca ccaagctcag agcctggaag tccagataga 120
 caagcagaga tgctccagaa ttaacccca cctccatcct atgctgctac aattgcttct 180
 aaactggcaa ttcacaatcc aaatttacc accacctgc cagttaactc acaaaacatc 240
 caacctgtca gatacaatag aaggagtaac cccgatttgg agaaacgacg catccactac 300
 tgcgattacc ctggtgac aaaagtatt accaagtctt ctatttaaa agctcacctg 360
 aggactcaca ctggtgaaaa gccatacaag tgtacctggg aaggctgcga ctggagggtc 420
 gcgcgatcgg atgagctgac cggccactac cggaagcaca caggcgccaa gcccttcag 480
 tgcggggtgt gcaaccg 497

<210> 701

<21 1> 505

<212> DNA

<213> Homo sapiens

<400> 701

tgaacgaatt tatttcccc tcagttttg agggcattaa aaaggcatta aatcaagaca 60
 aatcatgtgc ttgagaaaaa taaaattaat gaaaacacag cacttatgtt ggttagctg 120
 cagcctcctt ggaggtagaa tttattatt taaaattact ggttgcata agaaccata 180
 ggggtgtaca aaggttctat aaaatctgca ttagagagac aaagaggcag gcaaatccat 240
 gtacaagggt taaagcttac agtttcaaaa ctgggaacgc cagggtgtag gatataaaa 300
 cgcactcttg agaaaacaaa tgtaatcagg gtgctgaaaa ctgcatggt gcttcagac 360
 attagccttg ttaacaaat ttctgtatt gacagatcca tagtgtcat gggcagacac 420
 atttgcctc tatgtctctt aaaatttaa ttaaaatac tcttcagat aatcctaatt 480
 tgcacgaaga tataatgttc acatt 505

<210> 702

<211> 450

<212> DNA

<213> Homo sapiens

<400> 702

gcagcactta caatcactaa ttccctaag gttgaaactg taatgacata aaaagggtcg 60
 atgatattc actgatgta gatcgagcc cctgcaacgt agcctttgtt acatgaagtc 120
 cgctgggaaa tagatgtct gtctctatga caatatatt taactgactt tctagatgcc 180
 ttaatatgtg catgataagc tagtttatt gtttagtat tctgttgtt tacgcatgga 240
 atcactattc ctggtatct caccaacgaa ggctaggagg cggcgtcaga ggtgctgggt 300
 gacagagcca tgagccagcc atttataag cactctgatt tctaaaagt aaaaaaata 360
 tatgaaatct ctgtagcctt tagttatcag tacagattta ttaaatttcg gcccttaacc 420

cagccttttc cagtgtgtaa cccagtttga

450

<210> 703

<211> 542

<212> DNA

<213> Homo sapiens

<400> 703

tgcggaaata cctgaaatac agcaaaaata tcctggaccg gcaagatcct ccctctgtgg 60
tggtcaccag ccaccaggcc ccaggagaaa agaagaaact gaagtgcctg gcctacgact 120
tctaccagg gaaaattgat gtgcactgga ctggggccgg cgagggtgcag gagcctgagt 180
tacggggaga tgttcttcac aatggaaatg gcacttacca gtcctgggtg gtggtggcag 240
tgccccgcga ggacacagcc ccctactcct gccacgtgca gcacagcagc ctggcccagc 300
ccctcgtggt gccctgggag gccagctagg aagcaagggt tggaggcaat gtgggatctc 360
agaccagta gctgccctc ctgcctgatg tgggagctga accacagaaa tcacagtcaa 420
tggatccaca aggcctgagg agcagtgtgg ggggacagac aggagggtgga ttggagacc 480
gaagactggg atgcctgtct tgagtagact tggacccaaa aaatcatctc accttgagcc 540
ca 542

<210> 704

<211> 503

<212> DNA

<213> Homo sapiens

<400> 704

gaattctcga actgcatgta ttgtgccaat ctgtcctgag tgttcattgt ttgtacaaa 60
tttaatgaac gcgtgttctg taatcaaact gcaaatattg tcataaccaa catccaaaat 120
gacggctgct atatataagt gtttgtcata tggaaattaa tcgtaagcca tgatcataat 180
gttaactaaa taactttatg tggcactgcc tagtaaggga actatggaaa ggtttggatt 240
tctccaaatc tgggagaatt ttcaaaataa gaaaataacc tttatatgat atactatgac 300
taggctgtgt attcttttc agggattttt ctaccttcag gtttggatgt agtttagtta 360
ctattaccat agccaacctg tagttttaca tatacathtt ctgtggagc aatagagttc 420
tccattttac agaagcattt taaatgtagt ttgaatattt tccacaagat gctgcaatgt 480
gagttatcac ttcatattc tta 503

<210> 705

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (148)..(149)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (151)..(154)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (156)..(156)

<223> n is a, c, g, or t

<400> 705

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gaatgtgtga attcaataga ggctatgtaa aatttttact aatgtcatta tttgaaaaa 120
ataaatttaa aaatacattc aaaattanna nnnnanacaa gcttaattgt taatattccc 180
taaacacaat ttatgaagg gagaagacat tggttgttg acaataacag tacatctttt 240
caagtctca gctatttctt ctacctctcc ctatcttaca ttgagtatg gtaacttatg 300
tcatttatgt tgaatgtaag cttataaagc acaaagcata catttctga ctggtctaga 360
gaactgatgt ttcaatttac ccctctgcta aataaa 396

<210> 706

<211> 49

<212> DNA

<213> Homo sapiens

<400> 706

gtctttgcta taccactgac tgtattgaaa accaaagtat taagagggg 49

<210> 707

<211> 262

<212> DNA

<213> Homo sapiens

<400> 707

ggatgcagtc catccagaga tgtgacctcc tccagccgcc aaatccgcac caaggctatg 60
gatgtgcacg atggcaagggt ggtgtccacc cagagcagg tccttcgcac caagaactga 120
ggctgccag ccccgctcag gcctaggagg cccccgtgt ggacacagat cccactggaa 180
gatccctct cctgccaag cacttcacag ctggaccctg cttaccctc accccctct 240
ggcaatcaat acagttcat ta 262

<210> 708

<211> 396

<212> DNA

<213> Homo sapiens

<400> 708

ggcaactgc ttaatcttgt ggatttga gatggttca aatgactgaa ctgcattcag 60
atttacgagt gaaagggaaa attgcattag ttggttgcac gaacttgaa gggcagatat 120
tactgcacaa actgccatct cgttcattt tttaactat gcatttgagt acagactaat 180
ttttaaata tgctaaactg gaagattaaa cagatgtggc ccaaactgtt ctggatcagg 240
aaagtcatac tgttacttt caagttggct gtcccccccg cggccccccc ceaccccat 300
atgtacagat gataatagggt tgggaatgt cgtcagtggc aaacatttca cagattattt 360
tgtttctgtc tcaacattt ttgacactgt gctaata 396

<210> 709

<211> 455

<212> DNA

<213> Homo sapiens

<400> 709

gctggagggtg acgctactga gaactttgag gatgtcgggc actctacaga tgccaggga 60
atgtccaaaa cattcatcat tggggagctc catccagatg acagacaaaa gttaaacaag 120
ctccggaaa ctctatcac tactattgat tctagtcca gttggtggac caactgggtg 180
atccctgcca tctctgcagt ggccgtgcc ttgatgtatc gcctatacat ggcagaggac 240
tgaacacctc ctcagaagtc agcgcaggcc gagcctgctt tggacacggg agaaaagaag 300

ccattgctaa ctacttcaac tgacagaaac cttcacttga aaacaatgat ttaatatat 360
ctctttcttt ttcttcgcac attagaagaac aaacaaaaag aactgtcctt tctgcgctca 420
aatttttcga gtgtgccttt ttattcatct acttt 455

<210> 710

<211> 501

<212> DNA

<213> Homo sapiens

<400> 710

gaacagaacc tgagtcgtcg gactttcaaa agcctcttca gagcaagcga tgagagtgtt 60
ttatccatgc ataaagtctg tgaagcggga ggacttttg taaatagccc agaagagccc 120
agcctcagca ggatgggtcac tgaggaggaa atccagttct atgtgcagca gttcaagaag 180
tctggtttca gaggtcctct aaactggtag cgaacatgg aaaggaactg gaagtgggct 240
tgcaaaagct tgggacggaa gatcctgatt ccggccctga tggcacggc ggagaaggac 300
ttcgtgctcg ttctcagat gtcccagcac atggaggact ggattcccca cctgaaaagg 360
ggacacattg aggactgtgg gcaactggaca cagatggaca agccaaccga ggtgaatcag 420
atcctcatta agtggctgga ttctgatgcc cggaaccac cggtggtctc aaagatgtag 480
aacgcagcgt gtgcccacgc t 501

<210> 711

<211> 379

<212> DNA

<213> Homo sapiens

<400> 711

gttttctactg cttgtatgat gtttccatt catacaccta taaatctcta acaagaggcc 60
ctttgaactg ccttgtgttc tgtgagaac aaatatctac ttagagtgga aggactgatt 120
gagaatgttc caatccaaat gaatgcatca caacttaca tgcgtctcat tgttgtgagt 180
actatgagat tcaaatcttt ctaacatag gaaagccttt tgcctccaa agatgagtac 240
tagggatcat gtgttataaa aaagaaaggc tacgatgact gggcaagaag aaagatggga 300
aactgaataa agcagttgat cagcatcatt ggaacatggg gacgagtgac ggcaggagga 360
ccacgaggaa atacctca 379

<210> 712

<211> 256

<212> DNA

<213> Homo sapiens

<400> 712

aatcctgtac caaatctgac atattatgcc tgaatgactc cactgtttt ctctaagtct 60
tgatttaggt agccttgtgt tctgagtaga gcttgtaata aatactgcag ctgagaaaa 120
agtggaaagct tctaaatggg gctgcagatt tgatattgc attgaggaaa tattaatttt 180
ccaatgcaca gttgccacat ttatcctgt actgtatgga aacactgatt ttgtaaagtt 240
gcctttattt gctgtt 256

<210> 713

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (369)..(370)

<223> n is a, c, g, or t

<400> 713

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atagtaccag taggggctta taataaagga ctgtaatctt atttaggaag ttgacttata   60
gtacatgata aatgatagac aattgaggta agtttttga aattatgtga cattttacat  120
taaattttt ttacattttt tgggcagcaa tttaaattgt atgactatgt aaactacttc   180
tcttgtagg taatttttt cacctagatt ttttcccaa ttgagaaaaa tatatactaa   240
acaaaatagc aataaaacat aatcactcta ttgaagaaa atatcttgtt ttctgccaat   300
agatttttta aaatgtagtc agcaaaatgg ggggtggggaa gcagagcatg tcctagttca  360
atgttgacnn tttttttt tttaaagaaa agcattaaga cataaaattc tttcacttgg   420
gca                                     423

```

<210> 714

<211> 398

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (42)..(42)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (103)..(103)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (164)..(164)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (225)..(225)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (286)..(286)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (347)..(347)

<223> n is a, c, g, or t

<400> 714

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aaagctaaac tgcctttgac cctaagatag atagaaagct atnttatttg tcttcagttg  120
tcaaggcatg actagtattt ctaattagcc taataaattc ccancacttt ctgaagtga   180
cactaatggt attgtcctac taaaactgtc attgtttctt tttntttta ctggtcagtc   240
attcacaata agctatgagg gtaaataaat atgtgttata acaagntaaa ccgtagttgc   300
aagaatatac catgaagatt aaagtaggct gggtttcatt tccatcnttc ccacacatct  360
cattgaattt gatggttgac ttaattggca ccataact                               398

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<210> 715
<211> 480
<212> DNA
<213> Homo sapiens

<220>
<221> miscfeature
<222> (207)..(208)
<223> n is a, c, g, or t
<400> 715

tacttaggtc aaatttctgt tctctcttcc ccaaataata ttaaagtatt atttgaactt 60
ttaagatga ggcagttccc ctgaaaaagt taatgcagct ctccatcaga atccactctt 120
ctagggatat gaaaatctct taacaccacac cctacataca cagacacaca cacacacaca 180
cacacacaca cacacacaca cacacannnt caccctaagg atccaatgga atactgaaaa 240
gaaatcactt ccttgaaaat ttatttaaaa aacaacaaaa caaacaaaaa gcctgtccac 300
ccttgagaat ccttctctc ctggaacgt caatgtttgt gtagatgaaa ccatctcatg 360
ctctgtggct ccagggttct tggtactatt ttatgcactt gggagaaggc ttagaataaa 420
agatgtagca cattttgctt tcccatttat tgttggcca gctatgcaa tgtggtgcta 480

<210> 716
<211> 559
<212> DNA
<213> Homo sapiens
<400> 716

taccctcgca gcagtgtctc tgaggactag caaagtctgg aggagatga atggtttctg 60
accctcacca gggctgtgga aggggtgggg tggttcatta tagtattcag gatttacagt 120
gcagtattca cgtgtaactt ttaagtttct agtacagtgc tttataacct ttaatgcaat 180
gttgatttca ttgggtact attgtgtagt atttaggatg tatgcatgtt tgtttatag 240
taagcttggt tgggtcttct gcttttctgc tacctttctt ggatttttgt accagagatg 300
tgctaaactg atgaaataca ttgagaaagt ttccatctta ttctttata tgggactgat 360
gatgtgtgtt ggggtagact gtcctgcag agtttggaag aagtcaccag caaagccggc 420
ctaaccaaga aaagtcaagg cccttcatga ccttgctggg cacagaaaac accctcgtgg 480
agtacactaa ttgaactgg actggtctca gtgtgagcac ttggcacact ttactaaca 540
catatacaac ccaccgtg 559

<210> 717
<211> 382
<212> DNA
<213> Homo sapiens
<400> 717

tccagccctc cggagagtgg gcttggccct aggccctcca gctcagccag aaaaagccca 60
gaaaccagg tgctggacca gggccctcag ggaggggacc ctgcggctag agtgggctag 120
gccctggctt tgcccgctag attgaacga atgtgtgtcc ctgagccca aggagagcgg 180
caggaggggt gggaccaggc tgggaggaca gagccagcag ctgccatgcc ctctgctcc 240
ccccaccca gccctagccc tttagccttt caccctgtgc tctggaaagg ctaccaaata 300
ctggccaagg tcaggaggag caaaaatgag ccagcaccag cgccttggtt ttgtgttagc 360
atttctctct gaagtgttct gt 382

<210> 718
<211> 486

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (77)..(77)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (351)..(351)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (457)..(457)

<223> n is a, c, g, or t

<400> 718

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gactcagaca gttcctngga aacaccgggg ctctgttttt atttctttg atgttttct   120
tctttagtag ctggggctgc agcctccact ctctagtcac tggggaggag tatttttgt   180
tatgttttgt ttcatttctt ggcagagctg gggctttttg tgtgatccct ctgggtgtga   240
gtttctgac ccaaccagcc tctggttagc atcatttga catttaaacc tgtaaatagt   300
tgttacaag caaagagatt atttatttcc atccaaagct cttttgaaca ncccccccc   360
tttaaccct cgttcaggac gatgagcttg ctttcttca acctgtttgt ttcttattt   420
aagactattt attaatggtt ggaccaatgt actcacngct gttgcgtcga gcagtcctta   480
gtgaaa                                         486
```

<210> 719

<211> 181

<212> DNA

<213> Homo sapiens

<400> 719

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tgagggttcc agagagcctt ttctaggcc tacatgcttt gtgaacaagt ccctgtaatt   60
gttgtttga tgtataattc aaagcaccaa aataagaaaa gatgtagatt tatttcatca   120
tattatacag accgaactgt tgtataaatt tatttactgc tagtcttaag aactgcttcc   180
t                                         181
```

<210> 720

<211> 464

<212> DNA

<213> Homo sapiens

<400> 720

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tccttgaat tgttgtttgt atgtataatt caaagcacca aaataagaaa agatgtagat   60
ttatttcac atattatata gaccgaactg ttgtataaat ttatttactg ctagtcttaa   120
gaactgcttt ctttcgtttg ttgtttcaa tattttcctt ctctctcaat ttttggttga   180
ataaactaga ttacattcag ttggcctaag gtggttgtgc tcggagggtt tcttgtttct   240
ttccatttt gtttttggat gatatttatt aaatagcttc taagagtccg gcggcatctg   300
tcttgccct attcctgcag cctgtgctga gggtagcagt gtatgagcta ccagcgtgca   360
tgtcagcgac cctggcccga caggccacgt cctgcaatcg gcccggtgc ctcttcgccc   420
tgtcgtgttc tgtgttagtg atcactgcct ttaatacagt ctgt                                         464
```

<210> 721

<211> 426

<212> DNA

<213> Homo sapiens

<400> 721

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ttcgacttgc atttttgcag gagcagtatc atgaagccta aacgcgatgg atatatgtt 60
ttgaaggcag aaagcaaat tatgtttgcc actttgcaaa ggagctcact gtggtgtctg 120
tgttccaacc actgaatctg gaccccatct gtgaataagc cattctgact catatcccct 180
atttaacagg gtctctagtg ctgtgaaaaa aaaaaaatgc tgaacattgc atataactta 240
tattgtaaga aatactgtac aatgacttta ttgcatctgg gtagctgtaa ggcatgaagg 300
atgccaaagaa gtttaaggaa tatgggagaa atagtgtgga aattaagaag aaactaggtc 360
tgatattcaa atggacaaac tgccagtttt gtttccttc actggccaca gttgtttgat 420
gcatta 426
```

<210> 722

<211> 445

<212> DNA

<213> Homo sapiens

<400> 722

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agccggagcc ggatgcagta ggactggact cgggccatat ccgtggtgcc gtcaacatgc 60
ctttcatgga ctctctgact gaggatggct tcgagaaggg cccagaagag ctccgtgctc 120
tgttccagac caagaagggtg gatctctcgc agcctctcat tgccacgtgc cgcaaggag 180
tcaccgcctg ccaGgtggcc ttggctgcct acctctgcgg caagcctgat gtggccgtgt 240
acgatggctc ctggtccgag tggtttcgcc gggccccccc agagagccgt gtgtcccagg 300
gaaagtctga gaaggcctga gccgtgacct ctctgctta ctgtaactgc ggccggttta 360
gtgaccccat gacttacagc cggttcttac ctctagggtg aaggagatga catgttttt 420
agaattgctg tgcaaggctc acct 445
```

<210> 723

<211> 501

<212> DNA

<213> Homo sapiens

<400> 723

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gcagggctag ttattccgat ttctgcaca attatttagc ttttgtaag ttcaacatgt 60
aaattttaa gacataaata tagagagact tatgtgttg aatataaatg atatatatgg 120
attagcatgt acctgtatat tattaacat gcaatgaact gactggtgag tgacgtctaa 180
ttgtatggct agcaatgtaa ttattcaga ctgtatttt gtacagagca gtgcactcta 240
acctatgcct ctgtgtcctc ttaatgcct aaagctgtgc ctagaaattt catctgtctt 300
aaaagtataa tatacttcat gctgtttatg ctattagttt ctgtactgct attctatatt 360
tattattttt aaatatatga catgtttact acttaaacat gaattcatgg tatectgggt 420
atttttttta agtcacttgg gggaaaacct gtttatcact ccagtgattt tgagtttgca 480
gtttcacaat cagttcttca t 501
```

<210> 724

<211> 477

<212> DNA

<213> Homo sapiens

<400> 724

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aaggagctta ttcttggtc catcgctaac acgttgactg cttattatgg gaaagtttc 60
tctgaagcca gggagaagca tgattgatg tgggcaaatc caagctccag ccaggtcgca 120
```

gtcccaaatg ccgacatcac tgactccagg gaccagggac atggagaaag ctgtttatga 180
 tatctttaac caggccctct tactagagct ggtgtttgtg actggccaac aagatgtggc 240
 tatgccaggg gacatctgag tatgtgcca gtcatctttt ttacaggtt gaaggagag 300
 aaaagatttt gagttaaggt cattggctgc tctactctgt ccctacctg gtcacctagt 360
 gatagcccca gtggagatac tgtccataca aggtcttccc agaggctgga taccacagta 420
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<210> 725

<211> 444

<212> DNA

<213> Homo sapiens

<400> 725

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 tattgggacc agaaaccaag taatgtataa tgtggctttt gttgagttaa ataagatgct 180
 atataatgga gaagaatttg aaaatgcaca aaaaaatcaa tctacattat cagaacctgc 240
 agtgaatta aacttatgtt aaataaaacc agttgcagg tgcacaaact atgagggtct 300
 tgtatccacg taacacaggt agttacaaaa acatgttatt gtactgtgta aagatgcata 360
 gtcattctcat ttggttggtt ttgtacctg taccttttt agccttggtt ttgttgaac 420
 tagaaccttc agcacatact gtgt 444

<210> 726

<211> 475

<212> DNA

<213> Homo sapiens

<400> 726

gagagctcgc ttgagtgc tgggtttgt gattgcctct gaagcctatg tatgcatgg 60
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 tcatctgcc actacccct cctgaagcca cagcagggtt tcagggtcca atcagaactg 180
 ttggcaaggt gacatttcca tgcataaatg cgatccacag aaggtcctgg tggattttgt 240
 aacttttgc aaggcatttt ttatatata ttttgtgca cattttttt tacgtttctt 300
 tagaaaacaa atgtatttca aaatatatt atagtcgaac aattcatata ttgaagtgg 360
 agccatatga atgtcagtag ttatacttc tctattatct caaactactg gcaatttga 420
 aagaaatata tatgatata atatgtgatt gcagctttc aatgttagcc acagt 475

<210> 727

<211> 317

<212> DNA

<213> Homo sapiens

<400> 727

gattttctag tgctggattt tgttgactac catgcagaag ggctatcttt ctattcacgt 60
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 gggctctgat ttgtgggaac agaccttctt gtaaataacc actatttgag ttgtggcagg 180
 aggatgataa agcacgcggc cctcccaaa ggagcccttg agctagggag gtggtgcagt 240
 cagctcgtct ctcaactgta cccggggaat gaccaccag agggatgagc tagcctgtag 300
 aggggaactg ggggtcca 317

<210> 728

<211> 496

<212> DNA

<213> Homo sapiens

<400> 728

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tctggtgcc tatagtgtc tgggatccca tcgagaagaa ccatgggtgg acccgaactc   60
cccggtgtc ttggaggacc cagtccttg tgccttggca aaaaagcaca agcgaacccc   120
agccctgatt gccctgcgt accagctgca gcgtaggggt gtggtcctgg ccaagagcta   180
caatgagcag cgcacagac agaacgtgca ggtgttgaa ttccagttga cttcagagga   240
gatgaaagcc atagatggcc taaacagaaa tgtgcgatat ttgacccttg atattttgc   300
tggccccct aattatccat ttctgatga atattaacat ggagggcatt gcatgaggtc   360
tgccagaagg ccctgcgtgt ggtgggtgac acagaggatg gctctatgct ggtgactgga   420
cacatcgct ctggttaaat ctctcctgt tggcgacttc agtaagctac agctaagccc   480
atcgccgga aaagaa                               496
```

<210> 729

<211> 425

<212> DNA

<213> Homo sapiens

<400> 729

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gaagcacggt atgatgacca aacataaaaa gtgtttata attgttggtg ttttaataac   60
aactaatatt attactctga tagttaaact aactcgagat tctcagagtt tatgcccta   120
tgattggatt ggttccaaa acaaatgcta ttattctct aaagaagaag gagattggaa   180
ttcaagtaaa tacaactgtt cactcaaca tgccgaccta actataattg acaacataga   240
agaaacgaat ttcttaggc ggtataaatg cagttctgat cactggattg gactgaagat   300
ggcaaaaaat cgaacaggac aatgggtaga tggagctaca ttaccaaatt cgtttggcat   360
gagagggagt gaaggatgtg cctacctcag cgatgatggt gcagcaacag ctagatgta   420
caccg                                           425
```

<210> 730

<211> 400

<212> DNA

<213> Homo sapiens

<400> 730

```
gaacacgcag agagttccc tagatatact cctgcctcca ggtgctggga cacaccttg   60
caaaatgctg tgggaagcag gagctgggga gctgtgttaa gtcaaagtag aaacctcca   120
gtgtttggtg ttgttagag aataggacat agggtaaaga ggccaagctg cctgtagtta   180
gtagagaaga atggatgtgg ttcttctgt gtatttatt gtatcataaa cacttgaac   240
aacaagacc ataagcatca ttagcagtt gtagccattt tctagttaac tcatgtaaac   300
aagtaagagt aacataacag tattaccctt tctgttct cacaggacat gtacctaat   360
atgttactta ttatgtagt cactgtattt ctggattttt                               400
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<210> 731

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (32)..(32)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (78)..(78)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (82)..(82)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (242)..(242)

<223> n is a, c, g, or t

<400> 731

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tcagaatagc cacatttnga anacttttg ttatcagtca atatttttag atagrtagaa   120
cctggtccta agcctaaaag tgggcttgat tctgcagtaa atcttttaca actgcctcga   180
cacacataaa cctttttaa aatagacact ccccgaaagtc ttigtctgc atggtcacac   240
anctgatgct tagatgttcc agtaatctaa tatggccaca gtagtcttga tgaccaaagt   300
ccttttttc catctttaga aaactacatg ggaacaaaca gatcgaacag tttgaagct    360
actgtgtgtg tgaatgaaca ctcttgctt attccagaat gctgtacatc tattttggat   420
tgtatattgt gtttgtgtat ttacgcttg attcatagt                          459
```

<210> 732

<211> 528

<212> DNA

<213> Homo sapiens

<400> 732

```
aacactaggg ccttggaat tctgtactg tgtctcatgg attggcact agccaaagcg    60
aggcaccctt actggcttac ctctcatgg cagcctactc tccttgagga tgagtagcca   120
gggtaagggg taaaggatag taagcataga aaccattaga aagtgggctt aatggagttc   180
ttgtggcctc agctcaatgc agtagctga agaattgaaa gttttgttt ggagacgttt    240
ataacagaaa tggaagcaga gttttcatta atccttttac cttttttt ttcttggtaa   300
tcccctaaaa taacagtatg tgggatattg aatgttaaag ggatatttt tctattattt   360
ttataattgt acaaaattaa gcaaatgtta aaagttttat atgctttatt aatgttttca   420
aaaggtatta tacatgtgat acattttta agcttcagtt gctgtcttc tggactttc    480
tgttatgggc ttttggggag ccagaagcca atctacaatc tctttttg                    528
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<210> 733

<211> 570

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (233)..(233)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (252)..(252)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (259)..(259)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (347)..(347)

<223> n is a, c, g, or t

<400> 733

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ttctgtgcc ttccccctc agatggagac ttcattatgt taatgaacaa gatatgaaga 120
aaatggcact cattgtggcc ttgtgaatt atgttgtgta tgtttaaca tctctgatgc 180
tgtgttacta aaattacaag gacctgcttt taaaaggcc agaacaattg tcntgaaatt 240
agtaacaatg cntgcatcnt agattggagt gctgcacaaa caaacataag agcaaagcaa 300
aactgtatca cataggggtt ttggtcactc acaacctgaa ttcacnaca gctggaatag 360
ctgtggaaaa caaataaaa caacaaaatt aataatgaaa tggaggggaa ttctagaatt 420
atatgctaaa tgcattttt atgatttgc gtattaactg atgataaac taatggcaga 480
aaaagaagt gagcaattc tatgtaatgt acagatacta gcattgcaca tatagtctgc 540
ttctgttcc tccagaattt gagtctgtt 570
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<210> 734

<211> 246

<212> DNA

<213> Homo sapiens

<400> 734

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agttcaagta cagtactat tcaagccat ttccacagg aaaacgagtg tgtgctggag 60
aaggcctggc tcgcatggag ttgtttctt ttgtgtgtgc cattttgcag cattttaatt 120
tgaagcctct cggtgaccca aaggatatcg acctcagccc tatacatatt gggtttggt 180
gtatcccacc acgttacaaa ctctgtgtca tccccgctc atgagtgtgt ggaggacacc 240
ctgaac 246
```

<210> 735

<211> 358

<212> DNA

<213> Homo sapiens

<400> 735

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ccgggggcct atggcagtga tgctgtgttg gtttcctagg gatgctctaa cgaattacca 60
caaacctggt ggattgaac agcagaactt gattccctta cagttctgga ggctggaat 120
ctgggatgga ggtgttgga gggctgtggt ccctttgaag gctctgggga agaatecttc 180
cttggtcttt tttagctgtt ggcggcagtg ggcagtccgt ggcattcccc agcttattgc 240
tgcatcactc cagtctctgt ctctctgtt ctctccttt ttaacaacag tcattggatt 300
tagggccac cctaactctg tgtgatctta tcttgatcct tatataataa acctgcaa 358
```

<210> 736

<211> 454

<212> DNA

<213> Homo sapiens

<400> 736

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gtagctctga tgagaatggg gtcccagatg gctcaggctg tgacctcctt gggcaccacc 60
ctccccaggc tgggtgtgga ggagttgggg cccctgcct tcaggaggct ttagtttag 120
aagggaagta ggcattacca tagacgactc ctaggagaca gtgctatgta aaatgtgtg 180
tctataaatg ttatcatgc atgtattcta gagctcattc atttattcaa caacatttg 240
```

gtgagcacct atttcggtc gagaaacttc atttatctcc tataattggc aaacttaaaa 300
atgcagcaga aacttacatt ccaaccttag agactcatag tgagcacaag gaaagttttg 360
ccctgagatt catggttatg gctgggtacc accaaataga agaatggctt aggggagtg 420
cccttcactg agatgtgttt ctttgtgaa cttt 454

<210> 737

<211> 226

<212> DNA

<213> Homo sapiens

<400> 737

aacgaactga actaggcctg gtggaaggag ggcgacttcc ctctggcag aatgctagct 60
ctgagccagt tcagtacctg gaggaggagc aggggcgtgg agggcgtgga gggcgtggga 120
gcgtgggagg cgggagtgga gtggaagaag agggagagat ggagcaaagt gagggccgag 180
tgagagcgtg ctccagcctg gctccacag gcagctttaa ccatta 226

<210> 738

<211> 560

<212> DNA

<213> Homo sapiens

<400> 738

tctactcgt gacttgccat gagaccaagt ttccaagca ttgcgtgaag tgcaacaagg 60
ccatcacatc tggaggaatc acttaccagg atcagccctg gcatgccgat tgcttttgt 120
gtgttacctg ctctaagaag ctggctgggc agcgtttcac cgctgtggag gaccagtatt 180
actgcgtgga ttgctacaag aactttgtgg ccaagaagtg tgctggatgc aagaacccca 240
tactgggaa aaggactgtg tcaagagtga gccgccagct ctctaaagct aggaagcccc 300
cagtgtgcca cgggaaacgc ttgccttca ccctgtttcc cagcgccaac ctccggggca 360
ggcatccggg tggagagagg acttgccct cgtgggtggg ggttcttat agaaaaaatc 420
gaagcttagc agctcctcgt ggcccgggtt tggtaaaggc tccagtgtgg tggcctatga 480
aggacaatcc tggcacgact actgcttcca ctgcaaaaaa tgctccgtga atctggccaa 540
caagcgcttt gtttccacc 560

<210> 739

<211> 440

<212> DNA

<213> Homo sapiens

<400> 739

cccattcggc gtagtaccga gagagctcaa gatgtgtggc agtttctgga tggaagctcg 60
agagccctta agttctgaga aaatttgaag cccccagggg tggggtggac gcgtgccgcc 120
cagtcgacgt cagcgtgggc tgatcctcgt ctagtgttg atgtttctg acagtagcct 180
ccaagaagcc gttgtgcgaa gacagagtcc tgacaggtcc ttccagccta ggcctgcagc 240
gccatttat ttatatttt taataaaaag taaaaacaaa aaacagacc cacattggaa 300
cagtgaatca gtccataga gagggcccgt ggaccatcgc tgcatgagt gatgccctgg 360
ccctctgaa accagccaac ctaattacct gtattgtgga aatgcgcatg agtccccaac 420
ccctgtttc tatacattct 440

<210> 740

<211> 473

<212> DNA

<213> Homo sapiens

<400> 740

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cagtagccag tgctgacttc tctagcatgc tctctgagga ggaaaaggaa gagttaaag 120
cagagttagt tcagctagaa gacgaaatta caacactacg acaagttttg tcagcgaaag 180
aaaggcatct agttgagata aaacaaaaac tcggcatgaa cctgatgaat gaattaaaac 240
agaacttcag caaaagctgg catgacatgc agactaccac tgcctacaag aaaacacatg 300
aaacctgag tcacgcaggg caaaaggcaa ctgcagcttt cagcaacgtt ggaacggcca 360
tcagcaagaa gttcggagac atgagacgaa agtaggcggt acgaacccta atggaggcag 420
tttgaggag gtcctcagct ccacggccca tgccagtgc cagagcttg cag 473

<210> 741

<21 1> 255

<212> DNA

<213> Homo sapiens

<400> 741

gttctgaaa tctgagtgt tgcctgccag tcgcatgag aacttctac cttctgtgt 60
ttactcttg cttactttg tctgagatgg cctcaggtgg taactttctc acaggccttg 120
gccacagatc tgatcattac aattgcgtca gcagtggagg gcaatgtctc tattctgctt 180
gcccgatctt taccaaaatt caaggcacct gttacagagg gaaggccaag tgctgcaagt 240
gagctgggag tgacc 255

<210> 742

<21 1> 566

<212> DNA

<213> Homo sapiens

<400> 742

gggtattggc cacacactga gttgcacata ttgagaacct aatgcactct gggctctggcc 60
agggtctctt caatacatg cacagtcata caagtcattg tcacagtaaa gactacactc 120
agccactgtc acaggcatat tccctgcaca cacatgcata cttacagact ggaatagtgg 180
cataaggagt tagaaccaca gcagacacca ttcatctctg ctccatagc atctacttgg 240
caaggtcata gacaattctt ccagagacac tgagccagtc ttgaactgc agcaatcaca 300
aaggctgaca ttactgagt gcctactctt tgccaatccc cgtgctaagc gttttatgtg 360
gacttatca ttctcaca tgaggctatg aggaactga gtcactcaca ttgagagtaa 420
gcacgttgcc caaggttgca cagcaagaaa agggagaagt tgagattcaa acccaggctg 480
tctagtcctg ggggtacagc ccttgactc ctactgagtt tgtgtaacc agccctgcac 540
gaccctgaa tctgctgaga ggcacc 566

<210> 743

<21 1> 555

<212> DNA

<213> Homo sapiens

<400> 743

gcattccacc ggcggctacg gtggtggcaa ttccggcggc ggcggcggcg gcctacgggg 60
gcggcactcc ggcggcggca gcagctccgg cggcgggatac ggcggcggca gctccagcgg 120
aggccacaag tcctctctt ccgggtccgt gggcgagctt tcatttaagg gaccaagata 180
ctaacaaaac cagagtaatc aagacaatta ttgaagaggt ggcggccgac ggtagagttc 240
ttcatctat ggtgaatca gaaaccaaga aacactacta ttaaactgca tcaagaggag 300
agagtctccc ttacacaga ccattaattt acagatgcat ggaaaacaaa gtctccaaga 360
aaacacttct gtcttgatgg tctatggaaa tagacctga aaataaggtg tctacaaggt 420
gtttgtggt tctgtattt cttctttca cttaccaga aagtgtctt taatggaaag 480
aaaaacaact ttctgtctc atttactaat gaatttcaat aaactttctt actgatgcaa 540

acgtctgaga ttact

555

<210> 744

<211> 436

<212> DNA

<213> Homo sapiens

<400> 744

ttcgtgatgg tgttgatcct cttcctggga gcctccatgg tctacctgat ccgggtggca 60
cggaggaacc aggagcgtgc cctgcgcacc gtctggagct ccggacatga caaggagcag 120
ctggtgaaga acacatatgt cctgtgaccg ccctgtcgcc aagaggactg gggaaggag 180
gggagactat gtgtgagctt ttttaaata gcgggattga ctcggatttg agtgatcatt 240
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gtttgctttg gaaatcctct aggaggctcc tctcgcgatg gcctgcagtc tggcagcagc 360
cccagttgt ttcctcgtg atcgatttct ttcctccagg tagagtttct ttgcttatg 420
tgaattcca ttgcct 436

<210> 745

<211> 505

<212> DNA

<213> Homo sapiens

<400> 745

ggctccatga aggtcctttg gcacagctct gctcctcccc tgcctgccaa agccccctt 60
taggccttgg gtggctggaa ggctttgtta agggactagg agaaatgggg gtatctttcc 120
cctttcctgc cctttctgt catctcaacc tctcacagag gtgtcttctc cccctaacct 180
acagcttttt gtacaagcca ttttgttaa attattata tttatatta ttcctgctt 240
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tagggtggag gtcactgcac taccaccac ctctggaaga ctggctgtga aaagtcaggt 360
ggcagaaacc tggggccaca tagagcctct ctcttttct gtttcttggc tctagaagat 420
cagcactgca ctgttagctg agagtgcggg caagacataa actgtccaga gtttgaaggt 480
tctcggaag accggagggc ttctc 505

<210> 746

<211> 471

<212> DNA

<213> Homo sapiens

<400> 746

gagggccgaa cccacatgac aaagagtac tccctgccct ccttcgggt ctccacctg 60
cctctggagt cacaccacc cgacccaaac accatgggcg gggccagcca ccgggacagg 120
gctctctcgg tgactgccac cgtaggggaa accaaaggga aggacctgc ccagcccag 180
cctccccag ctaggaaaca gaacgtgggc agagacgtga ccaagccatc ccagcccca 240
aacactgacc gcccatctc tcttttaat gagaaggact ttgtgttacg gcggaggcgg 300
gggaaagaga gtttgcgtag cagccctcac aaaaaggcct tgaacgggg agggcccagg 360
ggcaggactg tggagaccg tctgaacgg gcgactgtgt ctgactacc ttcaaaacc 420
agcactgtgt gggaatgtcc gccaggcaga gctcgagacc tcattgagac a 471

<210> 747

<211> 256

<212> DNA

<213> Homo sapiens

<400> 747

cgctaggtgc ctgctaggtg catggccaca gagcatgggc tgggcctggg cacaggagga 60
gcagctgctt tggtcggggg ggagactcgc agcagctgct accacagcc tattccactc 120
ctccccatct ccaggcgctg ggaggggggg cctcaccocg tcacgcctcg ctccctcctg 180
gccctctggt ccagcccttc acgcctctc tcagtctact caattgtgac tgcctcctc 240
gatgtatttt ttttct 256

<210> 748

<211> 528

<212> DNA

<213> Homo sapiens

<400> 748

agccctcgct tgtgtgttt cagatgagtt actgttaaca ggtaggttcg tgtaggcctt 60
gctgggcact ctgtacaatt agttgcttat tacgtatgat tactcgcagc gatctattgt 120
tccatataac caaaaagcat ggtttattca ttgaaacacg gttgacctga actcgtgcct 180
taggaattaa tgccccctta tggaaacctgc ctgaattgca cctgcgggtg gaggtcctcg 240
ctgtgaagtc actgaacaga acgtcgtgta tggagaaagg gctccgcag aaggaacggc 300
ctgtaccgtg cgctccggca caatcgcgtc tctgtgtct cactcacgga aagaaacaac 360
ctgaaggcca tcccgctggt ctgcacgtaa ccgtgaagac gtgtggccgc gtccacactg 420
cggctgggta cctgcaccc ggcaactgtg gactcacgtg cagccttct caggggactg 480
tcattgaaaa ggaaacgttt gatgtctgtg tcagctgtct ttgtagtt 528

<210> 749

<211> 518

<212> DNA

<213> Homo sapiens

<400> 749

agatgtgcgc aggagtacct gtcccggtg aagaaggagg agcagaggta ccaggccctg 60
aaggtgcacg cggaggagaa actggacagg gccaatgctg agattgctca ggttcgaggc 120
aaggccacg aggagcaagc cgcccaccag gccagcctgc ggaaggagca gctgcgagtg 180
gacgccctgg aaaggacgct ggagcagaag aataaagaaa tagaagaact caccaagatt 240
tgtgacgaac tgattgcaa aatggggaaa agctaactct gaaccgaatg ttttgactt 300
aactgttgcg tgcaatatga ccgtcggcac actgctgttc ctccagtcc atggacaggt 360
tctgtttca cttttcgta tgcactactg tatttccttt ctaaataaaa ttgattgat 420
tgtatgcagt actaaggaga ctatcagaat ttctgtctat tggttgcat tttcctagta 480
taattcatag caagtgacc tcagagtcc tgatcag 518

<210> 750

<211> 545

<212> DNA

<213> Homo sapiens

<400> 750

aaatagcatt aaactggaat tgacagagtg agttgagcat ctctgtctaa cctgctctt 60
ctctctggtg ctctctatct caccctacc ttggaattta ataagcttca ggcatttcca 120
attgcagact aaaaccactt ctaccatctc ctctagtatt ttcatgtat caggacagag 180
atgtcttatg tagggaagg gcaaggtatga agtgaggtag attatctata ccttcactc 240
attcaggatt ctgctccca tgcgtctgtc cttcattct cacactaca ggaatgctat 300
gtgatggcca gctgctccc ttctggta tccactgcag ctgctagtta gaaagggtt 360
cagggatgac ttttagtaaa tcattgggat ttattgatt tattatcact tataggatt 420
tgtggggtgg gactggggag cagggaattgc actcagacat gacatttcaa ttcctctg 480
caaatgaaaa ggttcttc tcttggggga aatctgtgtg tcagttctgt cagctgcaag 540

ttctt

545

<210> 751

<211> 421

<212> DNA

<213> Homo sapiens

<400> 751

gagtattaca ttggccttgg gggacagaaa ggaggaagtt ctgacttttc agggctacct 60
tatttctact aaggaccag agcaggcctg tccatgcat tccttcgcac agatgaaact 120
gagctgggac tggaaaggac agcccttgac ctgggttctg ggtataatt gcactttga 180
gactggtagc taaccatctt atgagtcca atgtgtcatt tagtaaaact taaatagaaa 240
caagtcctt caaatgtcc ttggccaaa agctgaagg agttactgag aaaatagta 300
acaattactg tcaggtgtca tcaactgtca aaaggtaagc acatttagaa tttgttctt 360
gacagttaac tgactaatct tacttccaca aaatatgtga attgtctgt tctgagaggc 420
a 421

<210> 752

<211> 375

<212> DNA

<213> Homo sapiens

<400> 752

aagctatgtg tatcttctgt gtaaagcagt ggcttcactg gaaaaatggt gtggctagca 60
tttcccttgg agtGatgatg acagatgggt tgaaaacat ctaagttgc tttgacct 120
cacctcccag tagcaatttg ctttcataat ccatttagca atccaggcct ctgtgaaaa 180
gataatatga gggagaagg aacacatttc cttctgaact tacttcccta agtcacttc 240
cttatgtatc atctaataca atgatggtg agtgaaaata cagaagggtt gtttgagtat 300
tcagatttca taaacactt ccttgaata tagctgcatt aacttgaaa gaagcctgtt 360
gggccagaag acaga 375

<210> 753

<211> 532

<212> DNA

<213> Homo sapiens

<400> 753

caggattggc caagtcacg ggggtgtcca acttcaacca caggctgctg gagatgatcc 60
tcaacaagcc agggctcaag tacaagcctg tctgcaacca ggtggaatgt catccttact 120
tcaaccagag aaaactgctg gatttctgca agtcaaaaga cattgttctg gttgcctata 180
gtgctctggg atcccatcga gaagaacct ggggtggacc gaactccccg gtgctcttgg 240
aggaccagct ccttctgccc ttggcaaaa agcacaagcg aacccagcc ctgattgccc 300
tgcgtacca gctgcagcgt ggggttggg tcttgccaa gagtacaat gagcagcgca 360
tcagacagaa cgtgcagggt ttgaattcc agttgacttc agaggagatg aaagccatag 420
atggcctaaa cagaaatgtg cgatatttga ccttgatat tttgctggc cccctaatt 480
atccatttc tgatgaatat taacatagag ggtgttcac gacatctagc ag 532

<210> 754

<211> 159

<212> DNA

<213> Homo sapiens

<400> 754

tcactgagca ccacattctc tagcttcttg ttgaggctgg aactgtttct ttaaatccc 60

ttaattttcc catctcaaaa ttatatctgt acctgggtca tccagctcct tcttgggtgt 120
ggggaaatga gttttctttg atagtttctg cctcactca 159

<210> 755

<211> 378

<212> DNA

<213> Homo sapiens

<400> 755

acatctccat tacaaatgcc acagttgaag acagtggaac ctactactgt acgggcaaag 60
tgtggcagct ggactatgag tctgagcccc tcaacattac tgtaataaaa gctccgcgtg 120
agaagtactg gctacaattt ttatcccat tgttggtggt gattctgttt gctgtggaca 180
caggattatt tatctcaact cagcagcagg tcacattct ctgaagatt aagagaacca 240
ggaaaggctt cagactctg aaccacatc ctaagccaaa ccccaaaaac aactgatata 300
attactcaag aaatattgc aacattagtt ttttccagc atcagcaatt gctactcaat 360
tgtcaaacac agcttgca 378

<210> 756

<211> 436

<212> DNA

<213> Homo sapiens

<400> 756

agtgagaaga tctgcaccgt ccagttggtg ggtaacagct ggacccttgg ctaccccgag 60
accaggagg cgctctgccc gcaggtgaca tggctctggg accagttgcc cagcagagct 120
cttggccccg ctgctgcgcc cacactctcg ccagagtccc cagccggctc gccagccatg 180
atgctgcagc cgggcccgcg gctctacgac gtgatggacg cgggtcccagc gcggcgctgg 240
aaggagttcg tgcgcacgct ggggctgcgc gaggcagaga tcgaagccgt ggaggtggag 300
atcgcccgct tccgagacca gcagtacgag atgctcaagc gctggcgcca gcagcagccc 360
gcgggacctg gagccgttta cgcggccctg gagcgcatgg ggctggacgg ctgcgtggaa 420
gacttgcgca gccgcc 436

<210> 757

<211> 441

<212> DNA

<213> Homo sapiens

<400> 757

gagagctcct gtttactaag caagcttttg tgttattat cctcattttt actgaacatt 60
gttagttttg gggtaatgga aaccactttt tcattgtaa tgactttggg ggcttttgtt 120
agtaagggtg ggtggggtga tgggttgacg acggaggtca ggtcttcctc tttctgaga 180
ctggatctgt tcaaacagca aacgccaca gatggccag aggtggtggt agtcagggtg 240
tgtgggtgtt tttaggggtc tttagtgttg ttctttcac ccagggggtg tggtcccagc 300
cagtttggtg ctgacggtga gaggaatta gaatctgttt gcaaattgtc caaccaccc 360
cctcaacatg aggggcttcc atttctgtg ttttgaagg gaactgttc ctcatgccg 420
ccatgttct gatattagtt c 441

<210> 758

<211> 437

<212> DNA

<213> Homo sapiens

<400> 758

ttctacctga acactgtac tcttgaagtc acaacaaaat aatgatgagc tttcacatc 60

acctttatgg ttccaatccc tagctcaaag ctctctggaa tcttttattt ttgttaaact 120
ttttttctt ttgttaaaat aaataaaaca ttcaatgttt ttctcctttt ctctcttatt 180
acttctttcc ttggcattt tcaatttgaa atgctttcct ttggttggtg gttttattct 240
ccccctaccc ctcccccttt ctattattc agaataataa cctgcaaagc tctgctctgt 300
tttggttttg aaagttaag cttttctgct tctgtgagag cacaggcttc tgccctttt 360
gattccaact gaactttgt gtctctaata gatactaaca cgggttaggt ttacagtct 420
cctaatttgt actggtg 437

<210> 759

<211> 402

<212> DNA

<213> Homo sapiens

<400> 759

cttaactctt ttgacatctg ctattgtgac acatGccatt gctggcaatg tgggtgcacac 60
tccgaaactt ttaactactg tttgtaagc ctccaagggt ggcatgacag ggtccttagg 120
caatgttttg ttgccctta tgcagagagg tgctccaagt gctgtgattg agcaccgtgc 180
tagaggaaact gtaatgcttc agaagttgta gcttatacaa aggaaacagg tctgctggc 240
ttaattaaa cagtattgc atgaagtagc gtggaggccc tggactgctg ctggttctt 300
aggatggact gttctggtat ctggtattgg ttagagact gtaataagg gacatcaca 360
ggtgatggga ttcatttgaa gcactctatt tctgttttaa tg 402

<210> 760

<211> 501

<212> DNA

<213> Homo sapiens

<400> 760

cagaaaaaggc ataccacgag cagctgtcgg tggcagagat caccaatgcc tgetttgagc 60
ctgccaacca gatggtaaag tgtgatcccc ggcacggcaa gtacatggcc tgetgcctgc 120
tgtaccgtgg agatgtggtg cccaaggatg tcaacgctgc cattgccgcc atcaagacca 180
agcgcagcat tcagtttgtg gactggtgcc ccacaggctt caaggttgg atcaactacc 240
agcctccac tgtggtgctt gggggtgacc tggccaagg gcagcgtgcc gtgtgcatgc 300
tgagcaacac gaccgccatc gccgaggcct gggcccgctt ggaccacaag ttcgacctga 360
tgtatgccaa gagggcgctt gtgcactggt atgtgggtga gggcatggag gagggtgagt 420
tctccgaggc ccgtgaggat atgctgccc tggagaagga ttatgaggag gtgggcatcg 480
actctatga ggacaggat g 501

<210> 761

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<400> 761

tgttacatgg cagcttaggc agactagatc ttgnttttc caatgcagca taatgagtat 60
gatctatttc tttcaaata atctttgaga tcccaggaaa aaaaaaatgc tctgctccat 120
tgagctataa tgtaaatgtg tttgtttaa aaacagggtga ggcaagtga tgatttattg 180
ttctgagga agtatatctg atttttttc tcatactcca aaagctagtc cctactctt 240

aataaaaata atgggtaact tttgtttt cactagcgaa ctccatgac atttccttc 300
tatgtagtgt gattaatgca atacatatta tagttatcta tacacagtgt aagatttaac 360
aaactgaaat gatccacctc atatgtgagt ccgtccaaaa gatgttactg ctctgggtgg 420
gccagtgttc tatatcggtt a 441

<210> 762
<21 1> 521
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (82)..(82)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (89)..(89)
<223> n is a, c, g, or t
<400> 762
ctgtgcgacg agtttcagct ggccaagaaa ggagtcaagt tattaaaaag catcacaatg 60
tagatctcca ggctggtttt tngttttng ttgtaagac tggggaaagg gggactattt 120
attctgcctt aaatcaatgg caaataagtc aagatgacat ttgtgaatg tagactatgg 180
atacactcct aatagattga tgtatgcata aaaggggggc aagtagatgt ttttctgtta 240
tgtaagcaat aatttticcg tgtcttattg agtatggcta gcgattattt attacatgct 300
agatgggttc ttgcatgtg gggtccatat aggtgcagaa atttcctcag ccaactggagg 360
gatttcgacc atatttgtca ttggatgag ctgttattag attgaaatct acacatcatt 420
tcattaaaaa ttgtgcctta gaaaacgcaa agctgttgca catggcgata aattatggat 480
gcagtacatt gaagagagat gaagtcactt ccaagtticc a 521

<210> 763
<21 1> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (64)..(65)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (115)..(1 15)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (422)..(422)
<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (432)..(432)

<223> n is a, c, g, or t

<400> 763

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gggggctcag tgagcactac tcacagatcc acacctgacc ctgttgggtc gagtcaggct   60
gggπnttgggt ctgcactgta gcacctgtgt tctttgagtt cacatcatga atgtnggtga   120
nttcccagat accatctcag gcttaaccta gcacatccta tttctttct tctatgatat   180
ccaaattgga ctgacctcac ttaaaagttg ctgtcccat tttgaccct atcttatctc   240
ggggaaattg cagactgatg gccagaccaa ctctgttgaa attcttgcat agagcaaacc   300
tgtgctcatt ttaagtggc atgggagagg cccaagcct agtaaagcct agtctgtgtc   360
ttcacagtgc tggtagaatg tgtttgtgtg tataaatata tgatatagat ttatatatgt   420
tntaacgcc anatattgaa ggccaacata actggtggac ag                           462
```

<210> 764

<211> 495

<212> DNA

<213> Homo sapiens

<400> 764

```
gtgaaccagg agatttagtg cttttatatt catttccttg catttaagaa aatatgaaag   60
cttaaggaat tatgtgagct taaaactagt caagcagttt agaaccaaag gcctatatta   120
ataaccgcaa ctatgctgaa aagtacaaag tagtacagta tattgttatg tacatatcat   180
tgttaataca gtcttgcat tctgtacata tatgtattac atttctacat tttaataact   240
cacatgggct tatgcattaa gtttaattgt gataaatttg tgctgttcca gtatatgcaa   300
tacactttaa tgttttattc ttgtacataa aaatgtgcaa tatggagatg tatacagtct   360
ttactatatt aggtttataa acagttttaa gaatttcac ctttgccaa aatggtggag   420
tatgtaattg gtaaatcata aatcctgttg tgaatggtgg tgtactttaa agctgtcacc   480
atgttatatt ttctt                           495
```

<210> 765

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (82)..(82)

<223> n is a, c, g, or t

<400> 765

```
gcaatcttgg aatctctaac tgcagtaagc atttcaaat gcaacaaaac tgcttaacaa   60
ctgacaagac accagcccat angctgctct tccaacagtg ggttctagct ttgaacaaaa   120
gtgctaaaca tttccttgaa tatattcttc ctcttttgt cctcatcact caatactggt   180
gctcttgta caggtagaac agcttgtttc tttccatct attcaagtgt gtttctaatt   240
ctaaaatgct gatcttctct ggagtctatg gtaggcaatt atggtcactg gaatagtttg   300
tcttgtttta aaatattatt ggtgcatgta caacagcatc caacatatct gtctgttcc   360
tagatatata gctctgattt taggcctttt gtgcatacca ttacaatatg gtggggtgaa   420
acattctaca gtagcctgtg ctgaactgat ctcttaaa                           458
```

<210> 766

<211> 414

<212> DNA

<213> Homo sapiens

<400> 766

```
aattctcact gttcactttt aactgacaaa gaaaaacaag tggaaactac agaaactgtg   60
gtagaacttt tacttgctgg tctggtcttg gttgtacca tcttggcca gtcacataac   120
tactcaagaa accttcccaa tagagtacaa caggatgaga ctctgaaatc actttcagta   180
ttccctgcta gatattgatt gttatttcaa gtattaagtg taagcttta atggataatt   240
agtataactg tggatggcat ctgattttgt tttaattct gtggattgtg ttaagcaat   300
tcaatagtat gttcctgatt ttgagatgct aagtgggtatt gcacagtgtg cactttatca   360
agtgtgtaca acagtcccat gaagtttata gagcataccc ttgtatagct tcag       414
```

<210> 767

<211> 441

<212> DNA

<213> Homo sapiens

<400> 767

```
tttcgagggg gcaaggaggg acagaaaagt aacctcttct taagtggaat attctaataa   60
gctacctttt gtaagtgcc a tgttattat ctaatcattc caagtttgc attgatgtct   120
gactgccact ctttcttcc aaggacagtg tttttgtag taaaactact ggtttataca   180
aagctttatt tagggggtaa agttaagctg ctaaaacccc atgtggctg ctgctgttga   240
gatactgtgc ttggggagta aaaaaagaaa gttatttctt tgtcttaaag aattttaaa   300
aaattagtca tgagacttat tcattcttcc aggaacata ctgattggc ttaaagact   360
agacagttaa gtaaaaggtg gctggaacat ctattttct acaaaactgg aaaaatgaac   420
ctggttctag aagaatgtac a                               441
```

<210> 768

<211> 529

<212> DNA

<213> Homo sapiens

<400> 768

```
gcagccaagg tctgtgttca gcacttggc tctgttgtta cgtaaaataa taagcattta   60
aaatagttta cagatatttt tgaccagtc ctttagaga ttcttcaga gaagaaacca   120
gatctgacct gttattgtt ggcgctgtt gaaaacgagc ttctttccc atgatatgtc   180
ttcgttttg aagtgtttaa gctgtgtccc ccttaaatcg tggcaggaga gattaaggta   240
attacaacac tcagtcttat gtcttacaag cactttgtct tgtctctgca agaaaattcg   300
attccagtc tttccataa aatacagaca tttaccaac ataatatgct ttgattgatg   360
cagcattatg ctttgggcag tattacaaaa tagctggcga gtgctttctg tatttaata   420
ttgtaaaaag aaaataagtt ataactgtta taaagcagaa ctttgttgc atttttaaa   480
ctgtgaagt cactgtgtat gttgtttgg tcaatgttc cgcagtatt       529
```

<210> 769

<211> 474

<212> DNA

<213> Homo sapiens

<400> 769

```
gaactcatgt gattaccct ttcaacttt ttgaaaacg atttaattta ttctaattag   60
attaacccta ttaacttatg gattgggtat caaatgaat gccagtccag atgtgcctag   120
acacgaaatt ggagctgagg actctcacga tatgcaagtt catccaact gaagatacca   180
taagcttttt ctctgaacca gagaaatgaa agtcagttta agaggctgat agatcttggc   240
cctgttaaagg catccactc acagtctga aggctgagtc agccccactc cacagttagg   300
```

ccaagaatta gattttaaaa ctctcatgt ctgtcccagt taactgttaa ataaggcctc 360
atcctccact gaagagtatg gattgaagga ttgtgaacta tgtttagtgt gattgtgaac 420
ttggtgccta atgttccatg tctgaagttt gccccagtgc tacacgttgg agta 474

<210> 770

<211> 536

<212> DNA

<213> Homo sapiens

<400> 770

ccctcaagcc tgggctcatg gagcccctgc ccagggccct cagggtgggcg gaaagtccat 60
cccctccgcc ctccaggaag gatgctcccg tgtgcagggg tctcctgcct gtgccatcca 120
ctggggctcg agacaatttc ccactcacct gtgaggccgg tgtggctgct tccctgttaa 180
atagtgttc tctgtaaga agccaaatat ttaagctcac ttctcccag agagaggaag 240
ctctgctcag gcctccagcg ttggctggcc atggccacag ccagatggag gagcccatcc 300
ccaggagact caggcagtgg cctggagagg cttgttctg taacggtgcc tttcttagg 360
gtccaggcag gaatgaagcc aataatttat tgctttccat tctgtggtat gatgtgcgtg 420
tgcgtgagtg tgtggccctt gttattccc ctctgtcaa gaatgaagtg gattcagttc 480
aggtactttt gaggggtgtt gtgctgacct tgtggtgtc gctgatgtac acacat 536

<210> 771

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (225)..(225)

<223> n is a, c, g, or t

<400> 771

ggatgggctg gaccaggtgg gacagattag ctgatgcctt tgtcacctgc cctctgtgca 60
ccctgagagc tcacagtaac actgtgtgtg tcaccatata actgcacctc acccccgcac 120
gtgtgcatga ctgcagaga atattccagc aattgtgtac ccctggggcca gtctcttga 180
accctgaggg tggccaggat ctggagctgc atctctaagg ggccnaggct ttggggacca 240
ttgccaaagg tggactcagg aggaaagaca cttaaagaca cttttacatg tctagtaatt 300
cttgatgttc atcttcagca ccagtggaaa cacatgaact tcgatgcagg tccagagacc 360
atggacactc ccacgaggct cagctctcag gcacccccta cacttcagtt gagggaaaag 420
ctcaagtgcc ttaggccctg ggaccacagt cttggctgag atcaaaggga tgagcaacag 480
ggacttctgc cacagtgaca atggaattgt gttgtgcctt acttcagagg tggctcttc 540
tttcttga 549

<210> 772

<211> 443

<212> DNA

<213> Homo sapiens

<400> 772

ttcttgagtt gaaactctc ctgtggttac tggattgag aaatcagcta ccaaagtga 60
aaaggacaag atcaattctt ttctagtcag ttctaagact gctagagaga gataccaggc 120
ccttagcctt gctctcagta gcgtcagccc cagttctgag cctccccaca ttactta 180
caagcagtaa aggagtgagc actttgggtc cttagactca tgtctgggga ggaagagcaa 240
gtagaaaagt ggcattttct tgattggaaa gggggaagga tcttattgca cttgggctgt 300

tcagaatgta gaaaggacat atttgaggaa gtatctattt gagcactgat ttactctgta 360
aaaagcaaaa tctctctgtc cttaaactaat ggaagcgatt ctccatgct catgtgtaat 420
ggttttaacg ttactcactg gag 443

<210> 773
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (192)..(192)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (195)..(195)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (222)..(222)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (351)..(351)
<223> n is a, c, g, or t
<400> 773

taatctcagc gctcttgatc tggaaacttc agagtacaaa ttggtggatg gtggaaggca 60
ggacacgtat ctctgtctga cggaaaacag acctcggggc tggcgtaaac cctgtgccca 120
ggccctctcc ccaactgccc aaaccggcct agacacgaag accaaagcag cctgcacagg 180
gcaaggcccc cngengaate ctgcagagca aactcagggt ancttgggtc catgaccgtt 240
tgcattcgaa acacaataca ctgcctcgtt ctctcagtta gcagctgggc agcagcgcac 300
cattcatcat ttaggttgtt ggtttgtt ttactctacc aatgttatgt ngaaactgca 360
ttgtaaaaag agaagaaaaa ggcaggtttt ccagggtccac ggaaggttt ggcctgacgc 420
tggagtgcgg tgatgaactt acgtgacaat gattgtattc ctcatagca ctta 475

<210> 774
<211> 504
<212> DNA
<213> Homo sapiens
<400> 774

gaattcacac ggtactcaga ggcactgctg gggaagtttg ttggtcttta ttagataaat 60
ttccagagac ctgtccataa tacccaacag aacatgactg ttctttgag gaaagggta 120
taatgtctgt ggtgtacaag tcgttttgg tataacttct ttctgctgc tgctgctcc 180
cggcaaacat agttttccta ttccaggcag agtgcggtat attccaggaa acactgtttc 240
ctactcactt agcttacttc ttgttgaat gcctcactaa tggcaagttt caagatgttt 300
tgggtgacaa tgcacacatg ctgggcaaaa gggatgatggc cagtggctgg cagctgggcc 360
agcagaagct aggacatctg tgagttgtca ttctcatcta tccatgtcca ctggcctgcc 420
agcatccgcc agtgccttgc cagtgtgcac ggtccacac tgtggcccct gagtccccta 480
atgtacacgc tgcagccaga atgc 504

<210> 775
<211> 417
<212> DNA
<213> Homo sapiens
<400> 775

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gacgagtagt cagttattgc ttgctagcta cacaccaggg ttgatccatt ttaaaacttt   60
tggcattttg tctcatggg ccataaatac agaaccttgt attttaatta aatttttta   120
caaaaggagg cacatgcaca atctccatgt aacaaacctt tagcagtagg atgtattata   180
cgacagttac ttaatttcta gagtcaggc ctctgggatc aaccccagac tgggccagaa   240
tgtagtgaa ggttttattg tgcccgggtg gaggataacg ttctttgggt actttttgtg   300
ggttgcaaat gaactcaatt gccacaagt ttaaactggt gtaaatcaag cttgacttaa   360
tgtgattgtt actgttatat ccagcctata ctgctagcag ctgctcatac tgcagtc    417
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<210> 776
<211> 304
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (238)..(238)
<223> n is a, c, g, or t
<400> 776

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aaaagcgctt cagtgcact agcttaccgg tacactagac taagcccttg atgacttatt   60
gcatgataca gtaccaggaa caacagggtg cctaaataca tgaaaagcag tgtaagctag   120
tgactactaa gccagtcttg tattactgta ttttgacag aatggttttg aaaactgtgc   180
tacagggact gatgtggcaa atatatctct ttatgcagaa ggaagtcttt tttttcntt   240
tttttttt taagaagtat ggctttttat gcatccttca tcgagggcat tgaagttgca   300
tgga                                     304
```

<210> 777
<211> 554
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (163)..(163)
<223> n is a, c, g, or t
<400> 777

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gatgacttca ctgggagcct tctggaatcc tgcagagggt caaggagcag ggatgttggg   120
tgcccacctg tcaagagttc agatcaaagt tgcgctgaga gntcacaat ttggttcag   180
ccttgacgcg ttgtccaac agtcattgg ctccctttgt atgatatcgt ggtcttctca   240
catggtgccc agtcaccaat attataatg aggtctaact acagcagtag ttttcatat   300
atatctctaa aacattttgt tatattgaaa aaagtaatag aaatcaagat gtgttgatga   360
aataaaatgt gtatctgagt gagaaaacaa gtatgggtgag gtcactttaa tgttcacag   420
cgatctcaga tctaggcctc aggtagaatg gaagctgttc tgcattcact gattaacgtt   480
gctaaactct tggtaggaca cgagctacca gccaatgct cttcatcaca gctatctgtc   540
ttttagtgcc acaa                                     554
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<210> 778
<211> 147
<212> DNA
<213> Homo sapiens
<400> 778

gacaggaggg tgtccacata tgtaacatc agttggatct cctatagaag ttctgctgc 60
tctcttctct tctccctgag ctggttaactg caatgccaac ttctgggcc ttctgacta 120
gtatcacact tctaataaaa tccacaa 147

<210> 779
<211> 560
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (175)..(177)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (179)..(181)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (190)..(190)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (422)..(422)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (426)..(426)
<223> n is a, c, g, or t
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<221> misc_feature
<222> (429)..(430)
<223> n is a, c, g, or t
<400> 779

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aggagactgg gaggtgaaat ggggaaatgg aagggtttgg aggcagagct gaaaacaggg 120
ttggaaggat ttctgaatt agaagacaaa cgtagcata ccagtaagg aaaannngnn 180
nagggggccan ggggaacccg tgaggatcac tctcaaatga gattaaaaac aaggaagcag 240
agaatggtca gagaatggga ttcagattgg gaacttgtgg ggatgagagt gaccaggttg 300
aactgggaag tggaaaaagg agtttgagtc actggcacct agaagcctgc ccacgattcc 360
taggaaggct ggcagacacc ctggaaccct ggggagctac tggcaaacct tcttgattg 420
gncctnatnn ttttggtggg aaaggctgcc ctggggatca acttccttc tgtgtgtggc 480
tcaggagttc ttctgcagag atggcgctat ctttctcct cctgtgatgt cctgctccca 540
accatttgta ctcttcatta 560

<210> 780
<211> 559
<212> DNA
<213> Homo sapiens

<220>
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<222> (36)..(36)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (51)..(51)
<223> n is a, c, g, or t
<220>
<221> miscjfeature
<222> (56)..(56)
<223> n is a, c, g, or t
<400> 780
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gaattaacag caactttcca caggtaaadc tgttcttgca aagatgtgag cagaatagtt 120
aaaaataata ttttatgtt tcatggttct aaatggaagc cataaatgca gtaaatacta 180
tctgttggtt aactacttta atcgtcattt ttacatttt caagtttatt aggttaagaa 240
aaacagggca gccttggaag gcagctacta cagaaaactg cagttttgag ttaaagataa 300
agtagtattt tcagctccct gaaaaacat tctgctgaa actgctgtag aaattgtgaa 360
gctgcatgag tggagagtat tgaatctgtg gttatagtag ttttctcagg ttgtttatc 420
ttgatgttg atgcactgtg ttttatagt attaaaattg agtaatatta ttctatgca 480
gtgttatgtg tcattggcct ttgtgaatg tgcattgttt aaactgcaaa ttttaacat 540
ttgtcctct aattgttat 559

<210> 781
<211> 507
<212> DNA
<213> Homo sapiens
<400> 781
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ctgttttgat tttttttaa aaacaaaccc ttttagtcac tttaacaga attttaatg 120
ttcatgttac ataccaaatt ataatatcta atggagcaat ttgtctttg ctatattctc 180
caagattatc tcttaagacc atatgcccc tgttttaag tttcttacct ctgttttta 240
ctcatttctg actggacaaa gttcttccaa acaattctga gaaacaaaaa cacacacgca 300
gaattaacaa ttctttccc tgtgcttctt atgtaagaat cctcctgtgg cctctgcttg 360
tacagaactg ggaaacaaca ctgggttagt ctcttttaag ttacaaaaag ccaattgatg 420
tttcttatc ttttaaat tttaatat ttgtataaat actcacagga taccttatt 480
ccctagctat catctctga cttaatg 507

<210> 782
<211> 480
<212> DNA
<213> Homo sapiens
<400> 782

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 atgttaacta atgaagtcc agagatgggc ctagaaatg tgtttaaga attaacaagg 180
 agtctcaaaa agaaatgaga gggatgcttc cttcccttg catctacaaa acaagagaga 240
 gactgttctg ttgaaaact cttcaaaaa ttctgatatg gtaaggctact tgagaccctt 300
 caccagaatg tcaatctttt ttctgtgta acatggaaac ttgtgtgacc attagcattg 360
 ttatcagctt gtactggctc cataactctg gtttggaag aataatttg aaattgtgc 420
 tgtgtctgt gaaataacc tccccaaat aattagtaac tgggtgtct acttggtaat 480

<210> 783

<211> 341

<212> DNA

<213> Homo sapiens

<400> 783

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 ccccgccctt cggggttcc agggcttga gctgatctt ttgaaagtt tattctatta 120
 aattttgct atactctctg gtttctgaa aaagcttag aatggttct atacccttg 180
 taccactgca ttttccata tcattccgg ttcgatcgc tccagatgga aaacggaagc 240
 agaggcttct aatcgtcga ttactggct ccagtgaac acatccatc gaaaacactc 300
 ggaagtctgg tgctggaga ggggtccatt gtctctgta c 341

<210> 784

<211> 490

<212> DNA

<213> Homo sapiens

<400> 784

acatgcatac ttattgtgg gccatgaacc aaatggttct tacttttct ggacttaaag 60
 aaaaaaagag gttaagttt gttgtggcca atgtcgaaac ctacaagatt tcctaaat 120
 ctctaataga ggcattact gtttcaatt gacaaatgat gccctctgac tagtagatt 180
 ctatgatcct ttttgcatt ttatgaata tcattgatt tataattggt gctattgaa 240
 gaaaaaatg tacatttatt catagataga taagtatcag gtctgacccc agtggaaaac 300
 aaagccaaac aaaactgaac cacaaaaaa aaggctgtg ttacacaaa ccaaactgt 360
 tcatttagat aattgaaaa agttccatag aaaaggcgtg cagtactaag ggaacaatcc 420
 atgtgattaa tgtttcatt atgtcatgt aagaagcccc ttatttttag ccataattt 480
 gcatactgaa 490

<210> 785

<211> 398

<212> DNA

<213> Homo sapiens

<400> 785

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 ggctggggac aagttcactt aaaaaggcaa tgttattaa caggcacca gtaagactt 120
 ctgctttgta gatacatgca gaagccatca aacaaggggg agctttaac tgcaacaata 180
 agctaaagta tgtaaaatac tacattctat tcagctctgg agtggtttgt agaaagtat 240
 ctccagccaa atctttgctg aagactggtt gtggagtgtt ggtaaatgct ttgtgtttt 300
 atgtaaaata ttttctaac aaaaatggtt aaaagtacat gtcctctgta gtaactgat 360
 atctatatat atgaatcatt caagcctaaa gtctagta 398

<210> 786

<211> 528
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> (106)..(106)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (185)..(185)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (189)..(190)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (196)..(196)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (245)..(245)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (284)..(284)

<223> n is a, c, g, or t

<400> 786

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 ggggcagcgg ctctgtcctg tgccttacca gccctgggga gggggncatt tggctggaag 120
 actggaattt aattgccatc gtctttgatt ttgtgacatt tctgcttgga agtgtgaact 180
 accncccnnn ccccnngctt cctgctcctt agcatgcgtg cagctctctc ctgttttggg 240
 tgttnccctt ggacactcca gctcggggac tgctggcgtg tgantgtgca gattcccctg 300
 tgtggtcgaa cctaagaact gtggcttgga agtgatgctc catgtgacga cgactttgct 360
 ttctttctc ttagttagga ggtgattcgt agatccaac tgcctatgta atgtaaataa 420
 tgtacattta atttattgct atggtagcac attgtatttg ttaatgtaca aaacaaattc 480
 taaaagggtg acaaatgtat attttgttgc taaatgtgt ctttgcag 528

<210> 787

<211> 543

<212> DNA

<213> Homo sapiens

<400> 787

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 attgtattga atagtttaca tagtttattc tagtctttga aaattactga acatggacaa 120
 tgtgcatgtc attgacatct gccttagaac ttctgggaca atcctgattc gagagattct 180
 atcccattat ttacatatac caaaaatact ttgttaattt aatgtgttgg ctcccaact 240
 cctgaacacg acacaatttt attattagat ttgtatggt gattttagtc tatgaaaaca 300
 tgtacattat atgtatatag atacattttt attgtttaca aatgtttgag cagctcacta 360

gcccacccct cctctatttt gggttaagaga atttactacc tttttaact atgtagttga 420
gagcaacatg tattttgta ttttagaat ggtcagtata ttgctataaa attttaaatg 480
agactatgaa agttaagta ttctgattct ggtaaatta acgaatatgg ttccaggccc 540
tgt 543

<210> 788

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (33)..(34)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (36)..(47)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (49)..(49)

<223> n is a, c, g, or t

<220>

<221> miscjfeature

<222> (51)..(53)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (55)..(56)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (58)..(58)

<223> n is a, c, g, or t

<220>

<221> miscjfeature

<222> (60)..(61)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (63)..(63)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (66)..(74)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (76)..(80)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (85)..(85)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (208)..(208)

<223> n is a, c, g, or t

<400> 788

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ncnagnnnnn nnnnnnnnn ccaanatact acaaaacca gagtaatcaa gacaattatt 120
gaagaggtgg cgcccgcagg tagagttctt tcatttatgg ttgaatcaga aaccaagaaa 180
cactactatt aaactgcatc aagagganag agtctccctt cacacagacc attattaca 240
gatgcatgga aaacaagtc tccaagaaaa cacttctgtc ttgatgtct atggaaatag 300
acctgaaaa taaggtgtct acaaggtgtt ttgtggttc tgtatttctt ctttactt 360
taccagaaag tgttcttaa tggaagaaa aacaacttc tgttctatt tactaatgaa 420
ttcaataaa ctttcttact gatg 444

<210> 789

<211> 548

<212> DNA

<213> Homo sapiens

<400> 789

gtatcggaac agtacaacat ctaaagagta aatttgaaa aggctacttt ttgaaatta 60
aattgaagga ctggatagaa aacctaag tagaccgcct tcaaagagaa attcagtata 120
tttccaaa tgcaagccgt caggaaagt tttctctat ttggcttat aaaattccta 180
aggaagatgt tcagtccctt tcacaatctttttaagct ggaagaagct aaacatgctt 240
ttgccattga agaatatagc tttctcaag caacattgga acaggtttt gtagaactca 300
ctaaagaaca agaggaggaa gataatagtt gtggaacttt aaacagcaca ctttgtggg 360
aacgaacaca agaagataga gtagtatttt gaattgtat tttcggctt gttactggg 420
acttttct ttttactta atttaactt tggttaaaa agtttttat tggaatggta 480
actggagaac caagaacgca ctgaaattt ttctaagctc ctaattgaa atgctgtgtt 540
tgtgtgtt 548

<210> 790

<211> 196

<212> DNA

<213> Homo sapiens

<400> 790

agaatacttg taaaagcata tcacatctta aaccagtggg gcacatgtgg atttacagct 60
catggactct actgttcagc ttaatttat aaacataac acacatttaa tttatacag 120
tattacata tagtggaaca tagggataac tcagtttat gtaaatttt gtaagtgtt 180
gtagcctgcc cagagt 196

<210> 791

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (208)..(208)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (461)..(461)

<223> n is a, c, g, or t

<400> 791

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agctagaatt aattgcccac tctcccaccc taccagtgcg gcccggaag ggcaggaatt   60
gggaggccta ggggtgggcat gaaagcttgg gaagcactgt cgtctctcag acaggcgtcc   120
taaagacctc taggctggaa gcttgggctt gcaagtggat ccgggaccga ggggtgtctc   180
ttggacaacc ccaggaactt ggaccaangc agagccaatc ttgcaaaactg gccatggatg   240
gggaagtgcc cggtagccag catgagccac actaggaaag aggaggaggg tgcagccaaa   300
cttaaggcac cggcaagtgt tgcagcact ggaggagacc ccgccagtgg ggtgaggcca   360
gccaagtccc tgtgttacga atggtgggcc aaggggctgt ctgctcggtc ccagtaggac   420
aggcagagct ccaggctggc accatggtag gcctccaggg naagagctgg gaggcaggaa   480
tggcacactg ggcaggcttg cccattcctg gccctgagaa tggagctgta gcctcatgga   540
ca                                     542

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<210> 792

<211> 522

<212> DNA

<213> Homo sapiens

<400> 792

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tgtgtcaaa tccttaatag ctacaggagc tactgaggga aatcagtgtc attatttaa   60
gtcacgcctt gtgtttttac tactttatc agcaggatta aacctgaata acttttggt   120
gttgtgctaa tagtgtaaat aaaataagcc tgccttcata aaactaacta ttttaaagg   180
aataaacgac ttctaaaatt atgcctatta acatgtgtaa ttatcggtca gctcaaatgt   240
ttgggagtgc aagaaattag gcaccccagg atataggta tacagggata tataaaagcc   300
atgtctatta caaaatgagc agttgatgtt ttatgtggca ttaagacaat caagtcctca   360
caactctgga atgtcttctt atactgatgc tgaatttatg aatccaaatt aattccaac   420
aggttggaat cagatttaat gtgagatcat gatagacaag accacagagg acgtatgtc   480
tatttctgt tggccaacag cttctttcta atgttctgtg aa                       522

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<210> 793

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (34)..(34)

<223> n is a, c, g, or t

<400> 793

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acagcactta taatgatgtc actacatata gaagctcaaa gtaagggat ttgctgaaga   120
ctgtaaagt taaatgaagaa ttgagacaaa aatccagtgt agctggccac ttatccaggg   180
ctttttctac ttcatacaaa ggaatgtttt gaaagtgtct gctttttta tccttaaaat   240
tcacctgtca gggaggcatt aaaaatttgg aaatgtatgc cagcaaaatg tgagctctgt   300
atttttggc attcttatgt ttgggtttaa taagattaag aaatgatac tggaatttt   360

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cttttctg aaactttgaa tcaccctagt aagtc aaagt actaaaaat gtactagatc 420
attaagactt atgtgctctt actgattgaa 450

<210> 794

<211> 544

<212> DNA

<213> Homo sapiens

<400> 794

cacaggcagg tgactactcc atgcgcgtgg acctgcgggc tggggacgag gctgtgttcg 60
cccagtacga ctcttccac gtagactcgg ctgcggagta ctaccgcctc cacttgagg 120
gctaccacgg caccgcaggg gactccatga gctaccacag cggcagtgct ttcttgccc 180
gtgatcgga ccccaacagc ttgctcatct cctgcgctgt ctctaccga ggggcctggt 240
ggtacaggaa ctgccactac gccaacctca acgggctcta cgggagcaca gtggaccatc 300
agggagtgag ctggtaccac tgggaaggct tcgagttctc ggtgcccttc acggaaatga 360
agctgagacc aagaaacttt cgctcccag cggggggagg ctgagctgct gccacctct 420
ctgcacccc agtatgactg ccgagcactg aggggtcgcc ccgagagaag agccagggtc 480
cttcaccacc cagccgctgg aggaagcctt ctctgccagc gatctcgag cactgtgttt 540
acag 544

<210> 795

<211> 558

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (158)..(158)

<223> n is a, c, g, or t

<400> 795

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agcagccatg agtgatcttc ctttgaaga gaatgaaaga ccctgtgaca ttacttca 120
aaaataagcc ctgtagctct ttacggtcgc atagtatnaa attataccct gcatgctgac 180
cctcgcttgg aatggaatgc cagaaatgca tggcagcagc taataagtaa agctgattaa 240
ctatttatt gtcaatgtta ttattaatg agctttcaca tgtgattgt ttcaaaactt 300
taattttta atgttttgaa acttttcat ggacctaaat atttctctat atgatttggt 360
gttgattaga aatatgaaat acatgttgta gatatgtaaa atgaatatt tagtctcctt 420
attacatata tgtcatggt gaactttatc aatagtatgg atctttttaa atcaataaga 480
tgctttgtaa agttgaaata agtaatactt tctgttttaa tctgtgcaat cagaagggtg 540
cttgaccttc aattcaat 558

<210> 796

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (178)..(178)

<223> n is a, c, g, or t

<400> 796

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ataatttttg aaaagagaag caaacaatgg tgtctctttt atgttcagct tataatgaaa 120
tctgtttgtt gacttattag gactttgaat tatttcttta ttaacctctt gagttttngt 180
atgtattatt attaaagaaa aatgcaatca ggattttaaa catgtaaata caaattttgt 240
ataacttttg atgacttcag tgaattttc aggtagtctg agtaatagat tgttttgcca 300
cttagaatag catttgccac ttagtatttt aaaaaataat tgttgagta ttattgtca 360
gttttgttca ctgttatct aatacaaaat tataaagcct tcagagggtt tggaccacat 420
ctctttggaa a 431

<210> 797
<211> 358
<212> DNA
<213> Homo sapiens
<400> 797

agagcgacgg ctgcaacagt gcctttttgt ctgttccctt gaccaatctt actgagaatg 60
gcctgatgtg cccgcctgc actgcgagct tcagggacaa atgcatgggg cccatgacct 120
actgtactgg aaaggaaaac cactgcgtct cttatctgg acacgtgcag gctggtattt 180
tcaaacccag atttgctatg cggggctgtg ctacagagag tatgtgcttt accaagcctg 240
gtgctgaagt acccacaggc accaatgtcc tcttctcca tcatatagag tgcactcact 300
ccccctgaaa agctatctga acagaggaag ataatgtagt gtgaagtccc cattgtc 358

<210> 798
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (61)..(62)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (64)..(76)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (78)..(81)
<223> n is a, c, g, or t
<400> 798

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rmgnnrinnnn nnnnrincnnn nttgtaaaat acggatcatt tgtattttgg ggtgataaaa 120
tagttcacca tgggtatgag atatttttc tttaaatcaa agtaaattag aatttttaaa 180
aagcacaaaa ctgcaggaca gtttatgaaa taggtggcac tattagggaa tcttcttta 240
aagcaagaaa tcatgttatt tagaaagaaa aactaatctt aaacatacta ttctaataa 300
atatttatat ttttatgaaa taaaggagta tgtggaaatt aatatttggg gatgttgac 360
agtggaaaag tatctagagt tttacctgc cttatctgaa ttctcttga aacttgagct 420
taaactctaa tagctgtttc ctttctatt ctgaacaact gtctccattt tcaa 475

<210> 799
<211> 519

<212> DNA

<213> Homo sapiens

<400> 799

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gaacagtct atgccaccag agaccactat ttaccaact cctcctgtc atttttgag   60
atgatcttgg atcttcgctg gacttatgtt cttttctaca gccaaggga ggftaaagtg  120
gtggccaaag gattttgtag tgccaatggg atcacagtct cagcagacca gaagtatgtc  180
tatgtagctg atgtagcagc taagaacatt cacataatgg aaaaacatga taactgggat  240
ttaactcaac tgaaggtgat acagttgggc acctagtgg ataacctgac tgtcgatcct  300
gccacaggag acattttggc aggatgcat cctaactcta tgaagctact gaactataac  360
cctgaggacc ctccaggatc agaagtactt cgcattcaga atgtttgtc tgagaagccc  420
aggggtgagca ccgtgtatgc caacaatggc tctgtgcttc agggcacctc tgtggcttct  480
gtgtaccatg ggaaaattct cataggcacc gtatttcac   519
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<210> 800

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (411)..(411)

<223> n is a, c, g, or t

<400> 800

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ctcgtcccg cgcctcagcc accaccctca tgcccaccct cgcacctca accagtcccc  120
agcgtccagc tacctggaga actctgcatc ctggtacaca agtgcagcca gctcaatcaa  180
ttccacctg ccgccgccgg gctccttaca gcaccgctg gcgctggcct ccgggacact  240
ctattagatg ggctgctctc tcttactctc tttttggga ctactgtgtt ttgctgttct   300
agaaaatcat aaagaaagga atcatatgg ggaagttcgg aaaactgaaa aagattcatg  360
tgtaaagctt tttttgcat gtaagtatt gcattcaaa agaccccccc ntitttttac   420
agaggacttt ttttgcgcaa ctgtggacac ttcaatggt gccttg   466
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<210> 801

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (148)..(149)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (189)..(189)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (191)..(194)

<223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (339)..(339)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (399)..(399)
 <223> n is a, c, g, or t
 <400> 801
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 agtttttaaa aataactatt ttgtataga tcataatatg cataaaactg tacagaaata 120
 tttgtaatg tgttgatgtt aaaaaaanna tctgtaaata aagttttaa aaaagaattc 180
 aaatggcana nnnngaaata ttagatatt ttgctattta tttaaaggag tattttaaga 240
 gatattgaac tatctgaaat tgaccagtaa tcaaagttcc aatcatctga atgcttttc 300
 ttgaggtaga atgtgagtct cagaaatgac tgcattacnt gcccttttt gcacctttc 360
 tgtctttta tttgcagaa caacaacaac acaaaaatng tgccttagct gtatttttt 420
 gtctagggga gttgtttct gtctgacaaa gcaacattt ttgcagaaaa cagtggatgt 480
 attaaatact gtatcatacc aaaaacactg caggtgtata tagatgctt ctgtcatact 540
 gtgtttca 549

<210> 802
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (101)..(101)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (106)..(108)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (125)..(126)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (222)..(222)
 <223> n is a, c, g, or t
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 <221> misc_feature
 <222> (225)..(228)
 <223> n is a, c, g, or t
 <400> 802
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 agatggcaat atataataat cattttaaaa gtatttgatt naaccnnnta atttccaga 120
 aatgnnaaaa aaaaaaatca gctctaaaac caaagctgat ttcagaaaaa ttgaaaatgt 180
 aaatcagccc tatccataat atagtttctc taaaacttta tntnrmnag tcattttaaa 240
 ataataaac tatttaaaaa tgtaactgct atcttaatgt tctgaaataa tttaaaacat 300

tttaaaatat gaatactgta gtataaaaga aagaaatggt gggaacgaaa agcagagaaa 360
gaaatgccaa ttccagtcca aagttttatt tgccaagttt tcttagaatg aattttacca 420
gtttatgaat tattgtaaac agaatgtgtc atggaaatac tgaaagattt ttcctagag 480
tggccttatt gactgctggt gtgatgccac tgtaa 515

<210> 803

<211> 197

<212> DNA

<213> Homo sapiens

<400> 803

tcagctttac cctctgaact tctgatcgaa ggtcatccct ctccagcttg agtggatcaa 60
agatgacaag ggccaatgga accaagtttg agtcttgcca ggtcaatact tgggtcctga 120
gtatgggtgac tagtatctgt ttgttatgt gtgtattatt ccagccagaa tgggaaatgc 180
taattcagct cctccag 197

<210> 804

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (48)..(48)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (212)..(212)

<223> n is a, c, g, or t

<400> 804

ggaattcttg ttcaatactg gcaggagtga aaattggtag aacctttnta gaaggcaatt 60
tggcaacatg tatgaaaacc taaatgttga tacaccttta cccagcagtt tgtttaggaa 120
tttatcctaa tgaataaaag ttgtccaagt ctcaaacat gagcccaaag gtatatttca 180
tgatgtttat gatattaaaa cattggaaac anctgaaaca tccttcagta aaagatggat 240
taaataaatt ccatgcagtt gtcattttaa aatattttaga tatatgttta ttgctatgga 300
tatatgttcc caaaatatta ttgaatcaaa aagtagacta caggatatat gttgaatatg 360
agctcattta taacattgaa tattttaaga taatgtatgt ttcatagaga gatcttcacc 420
aaatgttaag gatttttttt tctgggctgt ggtatttggg tgatctttac attcttcaga 480
etc 483

<210> 805

<211> 508

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (224)..(224)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (260)..(261)

<223> n is a, c, g, or t

<400> 805

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ggttacctcc cacagaacgt ggtggactcc ttcttcccc gcagcatgac ccggtttat   60
gccaaccttc agaaagcagt gaagcaattc catgagtaat gctatcgta ttcttggca   120
aagaactccc gtgactcadc gaggagctcc agctgttggg acaccaagga gcctgggagc   180
acgcagaggc ctgtgttcac tctttggaac aagctgatgg actnecgac tctgagaatg   240
ccaaccagag gcggcagccn ncccttctg cctcctgccc cactcagggt tggcgtgtga   300
tgagccattc atgtgttcca aactccatct gcctgttacc caaacacgcc tctcctggca   360
gggtagaccc aggcctctaa ccatctgaca gagactcggc ctggacacca tgcgatgcac   420
tctggcacca aggttttatg tgcccatcac ttcagagac cacgttccc tgactgtcat   480
agagaatcat catcgccact gaaaacca                               508
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<210> 806

<21 1> 494

<212> DNA

<213> Homo sapiens

<400> 806

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ccctggatgc gcaagctgca cataagtcac gacaacatag gcggcccgga aggcaaaagg   60
gccccgacgg cctacacgag ctaccagacc ctggagctgg agaaggagtt ccactcaac   120
cgttacctga cccgcagaag gaggattgaa atagcacatg ctctttgcct ctccgagaga   180
caaattaaaa tctggttcca aaaccggaga atgaagtgga aaaaagataa taagctgaaa   240
agcatgagca tggccgaggc aggagggggc ttccgtccct gagtatctga gcgtttaaag   300
tactgagcag tattagcgga tcccgcgtag tctcagtact aaggtgactt tctgaaactc   360
ccttgtgttc cttctgtgaa gaagccctgt tctcgttgcc ctaattcadc tttaaatcat   420
gagcctgttt attgccatta tagcgctgtg ataagtagat ctgctttctg ttcatctctt   480
tgtctgaat ggct                               494
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<210> 807

<21 1> 533

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (26)..(26)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (42)..(42)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (48)..(48)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (75)..(75)

<223> n is a, c, g, or t

<220>

<221> misc_feature
<222> (83)..(83)
<223> n is a, c, g, or t
<220>

<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, or t
<400> 807

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cctccacaga acgangccac ggnattccgt tatcttcctc cagttttgtt cttctccag 120
ncctcagttc caccaggtgt caggactgca tgggggcctg gggcaggcag aggagtcagg 180
ccagggtccc tgacggagca gcactcagca tgtgagttag gccacagaaa aactctgccc 240
cactgcttct tacctcacgg ggggtggctt cagggattct ttagcgcagc agattaaaat 300
cttgccacag tcgagaaatt gacaacaagc ttccatgctg tacatgggtc tcttttctc 360
tcttttattt ttaaaaagaa aaccagaaa gatgtaccag atttgttaa atgagggtat 420
gccagaaggt ggccagtttt gcttatgat cttatgaagg aagatttgat accctacgta 480
tatatataca cacacataca tatatatata tatccccaac caacaacggg act 533

<210> 808
<211> 358
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (146)..(146)
<223> n is a, c, g, or t
<220>

<221> misc_feature
<222> (180)..(181)
<223> n is a, c, g, or t
<400> 808

gaaactgtat gggtagcttt ttgtttgtt tttgtttt tttgtttt tgttttgtt 60
tttagttgta ggtgcgacgc gggaaattt ttgcgactgt acacatagct gcagcattaa 120
aaacttaaaa aaattgttaa aaaaanaaaa aaagggaataa catttcaaaa aaaaaaaaaan 180
ngataaacag ttacaccttg tttcaatgt gtggctgagt gcctcgattt ttcatgttt 240
ttgggtgatt tctgatttgt agaagtgcc aaacaggttg tgtgctggag ttcctcaag 300
acaaaaacaa acccagcttg gtcaaggcca ttacctgtt cccatctgta gttattcg 358

<210> 809
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (263)..(263)
<223> n is a, c, g, or t
<400> 809

agaacctgtc gtaccagcat catgagctgg atgcaggagc ccatggctga aaggagttaa 60

aacgcccagt ggtcattaag tgaacatct ttatcaacc tgcaaaagct gcagcgttct 120
ctgccaggtc aaatgggcat gtttagaaaa taagagaaga tggctgagta tagctaata 180
ataaatggtt gtttcttag aaaattaaac acacacagag tgtaagagga gaggatacgg 240
ccctccctga aggataaagt cncctggac ggtgccctgc cctcgcttct cacattaact 300
gcccaggaat gtcattgctga ttggtcccg gaagggtgtt tggcaagggg cagtgtatgg 360
agctacgtgt agaaggagag aaatttgtgt gtggcttttg taaattttga ccgattgcag 420
caat 424

<210> 810
<211> 478
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (333)..(333)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (360)..(360)
<223> n is a, c, g, or t
<400> 810

tagagactcc cctctaaata atttactcct acattgtaaa tacattgatg ccaacaaaat 60
tccaactgct actaacaag gtttggttg tgataagcta ataacagcta ctttgttag 120
gaggtaaata tgtgtactgg agggggtaaa aatccattta ggttatggca aagatgggaa 180
tcaactgta aaactcatag ccccataaaa ttaatttct ttgtaagt ccagagggtt 240
taagagaact tctgcttag agtttattga taataataat gctcagaat atccattta 300
aatgtacagt gtaaataatgt aaaatatctt acnttcccag gcaagttgt ggctgtattn 360
ccacttagtg gctcttttg actggcagtt ctgtatatct gaaacaaata agctgtaagc 420
acttttgta aaactttgtc aaataatcct ttatgtact tgtctcaga cctgttct 478

<210> 811
<211> 529
<212> DNA
<213> Homo sapiens
<400> 811

ggggcttctg ctgtcaaagc aaatgataag ttactcagg ccattattga ctgctgaact 60
ctcttcctc ccaactctc ctgaaagag aaaaaatac ttgccttct tgcctcctt 120
atcaaatgtt ttgtacaaa tagtgtaagc ctgttaagc aaaccaatta aaataggcac 180
tgattatttt gatctgtttg taacaaatga atgtaagtac tafttatcag gtgtgcctag 240
gaggagctga aatcattggc actttaatcc atattgtaaa gatcagtatc aaaagcatag 300
tgttcttcac ctctcctcct cagcatccat ctctatatac tgattaaat ggaaaagtct 360
ctttatcac ctctatgtaa agttttatgg gtagttatcg tcagtgtatt taaatatatc 420
ttctagtatg tttaaaggc ttgtcttcaa tactgtggag acaaaaaata aaagagcgta 480
tgaaaagtac gttagacttt tgctggcatt caagtcattg ctagtctgt 529

<210> 812
<211> 554
<212> DNA
<213> Homo sapiens

<400> 812

aatagctaca gactggaagc cagccaaatc tccattgata gggaattgat ggaaggaact 60
agggtatatc tatacaatgg gatactacac agctgtagaa aggactgcga actattttg 120
tagttctggt ctggagaaat ctccagaata taggaaatga aaaatgtaaa gcacagaaga 180
gaatgtatgg tgtgctgtct gttgtataac gaagagacaa atggaaaaaa tatgtatttg 240
cttttttgt aaagcaatag aagaattagt tataccaata actaataaaa tgatctcctt 300
gttagtggtg gtagggagct agacaaggat ggcaactatt tctgtatctt acataccttt 360
tattttgagg cctgtcaat gttttatata ataaacattt ttgaaaagg caactcttaa 420
aactaaaaca aacttaacag tctgtcaagt tggatgata accccacaga agacttactt 480
caagtgactt gaaaacttag tattttgtct gtactttgct aatggaatat atcctacaga 540
ccaaacaacc acaa 554

<210> 813

<211> 533

<212> DNA

<213> Homo sapiens

<400> 813

ctggcctttg gtgaccactg agaaggacac ttcacgggcc cagagctcct ggtactgccc 60
ttcctttgag ggccgtggag ggctgtggac agcccagcaa cctgtcgtc ttggaggctg 120
gtgtggcctt gaggagggaa gcctcgcag ggcgtggaa gagaggcgc tctggcctg 180
gctctgcaga acccaggggc acgctctggg cctgggctga ggaagtcccg ctctccccgc 240
ggctctgagt tggactgagg acaggtgtgg gcgccagtgt gggcgcaggc gcaggtgcag 300
gcacagggcc actgtcctcc aggcaggctt ttggtgcta ggccGtggga ctggaagtgc 360
cccagcccg atttatgtaa aggtatttat ggccactgc acatgcccgc tgcagccctg 420
ggatcagctg gaagctgcct gtcctcctt gcccaatccc cagaaaccct gattcaggtc 480
tgcaggctcc tgcgggctca ccaggctgct ggctccgcta ccatgtaaac eta 533

<210> 814

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (76)..(76)

<223> n is a, c, g, or t

<400> 814

agttttgctt ttgactccag gaacaaaaag gtaaatccca catccagtt tctcagaagt 60
ccctgtttat tccaantgcc atcagatgtg tgcaatgtgg caaactgaag ctgcacagtg 120
ttggtttctt tgtattctga ggatgttaaa gaettgtta aatggttatc caattgctct 180
ttcacaggtg gcctattaaa ctattttaat atgtttttt aaaceteata aaaatctagc 240
acactcttct cttagagcagt tageagacet aaagcaagcc tgaattggct atgcagtaca 300
ttgtattctg ttgggggaa ttgttttag ccattttctt taattaccag tttccagaa 360
cactcttagc tatgttgaca tgaggcagtt ccttcaggt gattctgtt ccttaagtat 420
tatataaact gtccaatac agacaaagca taatcaatat aatctgaatt attgttatct 480
ttacctctg agt 493

<210> 815

<211> 295

<212> DNA

<213> Homo sapiens

<400> 815

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gtattgggtc ccagttgggt acattttaa atcctgattt tggagactta aaaccaggtt   60
aatggctaag aatgggtaac atgactcttg ttggattgtt atttttgtt tgcaatgggg   120
aattataag aagcatcaag tctcttctt accaaagtct tgttaggtgg ttatagttc   180
tttggctaa caaatcattt tggaaataaa gattttttac tacaaaaatg aaattgttt   240
ggacttccac ttgagacagt aaagagagta ttagacaccc agtaaaaact gccat     295
```

<210> 816

<211> 422

<212> DNA

<213> Homo sapiens

<400> 816

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atggctctgg aaaaccagct gctacttcca aatctattgt ccataatggt ttctttctga   60
gggtgcttct tggcctcaga ggaccccagg ggatgtttgg aaatagcctc tctacccttc  120
tggagcatgg ttacaaaag ccagctgact tctggaattg tctatggagg acagtttggg   180
ttaggttac tgatgtctca actgaatagc ttgtgttta taagctgctg ttggctatta   240
tgctggggga gtctttttt ttatattgt attttgtat gccttttgca aagtgggtgt   300
aactgtttt gtacaaggaa aaaaactctt ggggcaattt cctgttgcaa gggctctgatt  360
tatttgaaa ggcaagtcca cctgaaattt tgtattagt tgtgattact gattgcctga   420
tt                                     422
```

<210> 817

<211> 352

<212> DNA

<213> Homo sapiens

<400> 817

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gtcacacttt atggctctcg gacccttaa tgtctgattc atgtagcaga agccagctag   60
attttcatct gtctctattc atttgttgt gatgtcatgg atcatgtggc ctctggaaaa   120
ctctactgta tactcgagaa tgagaatata acaggcaaaa taacattatc atgaaaatag   180
tttgacctc atgaaccca tgaaagggtc ccagaccaa aatttagaa tctctggtat   240
agggtaacac ttattgtgt aaattcagtt ctctgtaccc cacttaaata tgtattatta   300
tctcttgaca ttatttccc aaaaaatgct gtttgatttc ttactgttc tg           352
```

<210> 818

<211> 335

<212> DNA

<213> Homo sapiens

<400> 818

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acaaggccca ggctggggcc agggccagag gggaaggccc tggattctca ctcatgtgag   60
atcttgaatc tctttcttg ttctgttgt ttagttagta tcatctgta aaatagttaa   120
aaaacaacaa aaaactctgt atctgtttct agcatgtgct gcaatgactc tattaatcac   180
atttcaaatt caccctacat tctctctc ttcactagcc tctctgaagg tgcctggcc   240
agccctggag aagcactggg gtctgcagca cccctcagtt cctgtgcctc agcccacagg   300
ccactgtgat aatggctctg ttagcacttc tgtat                               335
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<210> 819

<211> 261

<212> DNA

<213> Homo sapiens

<400> 819

gaatgaagaa aagtcgcctc aacgacaaac aaaagcaccg actagatttc cttcagctga 60
tgattgactc ccagaattcg aaagaaactg agtcccacaa agctctgtct gatctggagc 120
tcgcagccca gtcaataatc ttcatTTTTg ctggctatga aaccaccagc agtgttcttt 180
ccttcacttt atatgaactg gccactcacc ctgatgtcca gcagaaactg caaaaggaga 240
ttgatgcagt ttgcccatt a 261

<210> 820

<211> 245

<212> DNA

<213> Homo sapiens

<400> 820

ggtgagggga tgacccttg agatgaaggg aagaggtgaa gccttagcaa aatgcctcc 60
tcaccactcc ccaggagaat ttataaaaa agcataatca ctgattcctt cactgacata 120
atgtaggaag cctctgagga gaaaaacaaa gggagaaaca tagagaacgg ttgctactgg 180
cagaagcata agatcttTgt acaatattgc tggccctggt tcacctgttt actgttatca 240
caata 245

<210> 821

<211> 273

<212> DNA

<213> Homo sapiens

<400> 821

acttaggtaa ttgtaggcg aggattataa atgaaatttg caaatcact tagcagcaac 60
tgaagacaat tatcaaccac gtggagaaaa tcaaaccgag cagggtgtg tgaaacatgg 120
ttgtaatatg cgactgcgaa cactgaactc tacgccactc cacaaatgat gtttcaggt 180
gtcatggact gttgccacca tgtattcatc cagagttctt aaagttaaa gttgcacatg 240
attgtataag catgctttct ttgagttta aat 273

<210> 822

<211> 492

<212> DNA

<213> Homo sapiens

<400> 822

ttgtcaaggg gctttgcatt caaactgctt ttccagggt atactcagaa gaaagataaa 60
agtgtgatct aagaaaaagt gatggttta ggaaagtga aatatTTTg ttttTgatt 120
tgaagaagaa tgatgcattt tgacaagaaa tcatatatgt atggatatat ttaataagt 180
atttgagtac agactttgag gtttcatcaa tataaataaa agagcagaaa aatatgtctt 240
ggttttcatt tgcttacc aaacaaca acaaaaaaag ttgtccttg agaacttcac 300
ctgtctctat gtgggtacct gagtcaaaat tgtcattttt gttctgtgaa aaataaattt 360
ccttcttgta ccatttctgt ttagttttac taaaatctgt aaatactgta ttttctgtt 420
tattccaaat ttgatgaaac tgacaatcca atttgaaagt ttgtgtcgac gtctgtctag 480
cttaaatgaa tg 492

<210> 823

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (118)..(118)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (125)..(125)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (133)..(133)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (136)..(136)
 <223> n is a, c, g, or t
 <400> 823

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 aaagcctcca tgcatttga cctacgaatt ctatctttgg gaatttatcc taagaaanta 120
 cttanggatt tanttngtga taagatgttc atcccagcat tgcaatggag aaaaatggga 180
 agcaatgggt tgggtgggaa ttatttcctt ttctgctgta acgaaagttt gcaatagggg 240
 attgcttaag taaattattg tatctccatc cagatgggtg agtaccgcgc agacattaaa 300
 agtcatgtaa aagaacatct gactgaaaga aaaatgctcc ttgaatatta aaaggttgta 360
 aaaatagtgc atgttatgtg atttcaattt tgttttttaa aatatgggtg tatgcttgta 420
 tacgtagagc agataaaaaa gacggaaggc atactaaaaa atgttgagtg gttatctttg 480
 tatgggtggaa caaagtcact gtaattttca tctttggtt 519

<210> 824
 <211> 375
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (310)..(310)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (312)..(312)
 <223> n is a, c, g, or t
 <400> 824

tccttgcct tcaactgtaat gcttaatggt tgtgtagtct tatacgtgac tcctgacttc 60
 aaggatcctg gtctgtacct ctttaggtca acacgttttg agtgaactgg tgttggttat 120
 ttggaattag atataaagtc atatattctt tggtagaggaa tggcttcata taggagtcca 180
 cattcaaaac aagctttgac aaaataatag agtgaaaatt ggtagatcag agttgagctg 240
 attggaggac caaattaaaa gactggctgg gcatgatggc tcacacctga aaaccagca 300
 ctttgggagn cnaaggcagg cagattgttt gagcccagga attcaagacc agcctagata 360
 acctgggtat ccag 375

<210> 825
 <211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (74)..(74)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (99)..(99)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (112)..(112)

<223> n is a, c, g, or t

<220>

<221> miscfeature

<222> (128)..(128)

<223> n is a, c, g, or t

<400> 825

gagcacatat cttacaaaac accaaaaaat tcatagttaa gagaaatcaa atatacatac 60
tgagtgtggg gaanccatta gacaaaactc ttctttttna caacaataaa ancctcacac 120
tggagagnnt ctctgaatgc cttagaatt tggtaatat ggagaccctt cccagggaaa 180
cagaaggagg atcgtgaaaa ctgttgacta cttagaatga tcacatgggt tagtggagag 240
agcatgattc tgggttttaa aagtcattga tctcaatctc agctcctatt actaactaga 300
tcttttactt tggggtaagt cacttcatat cttaggcct taattcctc atctgaaaaa 360
ctggaaggcc tgacttgttg agcttta 387

<210> 826

<211> 178

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (119)..(119)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (124)..(124)

<223> n is a, c, g, or t

<400> 826

tatgactgct aaaagaacca acccaggaca gagccacaat cttcctctat ttcattgtaa 60
tttatatatt tcacttgtat tcattgtaa aactttgtat tagtgtaaca tactcccccnc 120
agtnctactt tacaaagccc tgtaaagact ggcattctca caggatgtca gtgtttaa 178

<210> 827

<211> 426

<212> DNA

<213> Homo sapiens

<400> 827

```
gagagtgggtt gggggggagtg ggagagggtt gggggctggg aagacaaggg aaaagaaaat   60
gcaggatatat gctatttgtg ttcattttgt ctttgaaaat cgtaagtgtg cagcatcatt   120
ctcgggcaga gtctgggagg acttgagttg actgctacag ttatgatct tccctaaaca   180
tcgacgttcc tggaaatctt tggcctctga gctgacttct tctctgttgc ttgtgagcca   240
ggaatttaac agctctgttg tatgtgcagg ctgcagatgc ttctcttcag ctttgctat   300
ccaatgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgttg   360
ataaacttaa aaaacctgtt gttccatgc aacggccac acaacttggg actcatggtc   420
agcctc                                     426
```

<210> 828

<211> 400

<212> DNA

<213> Homo sapiens

<400> 828

```
tctgttccaa aatgtacgga cccacttac aatgaaattg tagtatatga tgaagtcaca   60
gagctccaag gacatgtctt aatgcttatt gtgaagagta aaactgtatt tgtgggagca   120
attaacatcc gactctgtag tgtcccactc gataaagaaa aatggatcc attaggaaac   180
agtataattt gaccattgct atgaacatat gcattattca ttaactactt gtatttttt   240
cacttccggg cctctgaatc acataagtaa ggcattcttg ttgtcaaaga cagcacaggg   300
tattaaggac acagaaaaaa aatcagaatt agtcttttgt gttgtttatt ttctacctgt   360
gctttcattg tttttcata atctttctc cticagtga                                     400
```

<210> 829

<211> 520

<212> DNA

<213> Homo sapiens

<400> 829

```
taaagccttt aactggctct caactcttac taaacataag agaattcata ctggagagaa   60
gccctacaaa tgtgaagaat gtggcaaagc tttaaccgg tcctcaaacc ttactcgaca   120
taagaaaatt catactggag agaaccata caaacctaaa agatgtgaca gtgcttttga   180
caacacccca aacttttcta gacataaaag aaatcatatg ggtgagaaat cctagaaatg   240
tgaagaatgt gacaaagcct ttaagcgggt gtcacacttg attgtatata agataattca   300
tactggagaa aactccaga agtgtgacaa atgtgacaaa acatttaatt aatttcata   360
ccttattgca caggaaagca ttatacttg agaaaaattg tataaagaat ggaaaagtca   420
ttaatatctg ctcatatctt aacatcagcg agttgggtatt taataaaagc attatcaatg   480
aaattactgg caaaagatct ttcagacat ataagcctgc                                     520
```

<210> 830

<211> 347

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (223)..(223)

<223> n is a, c, g, or t

<400> 830

```
cactgctagc agggcttcaa ccaggaaggg atcaaccag gaagggatga tcaggagagg   60
cttccctgag gacataatgt gtaagagagg tgagaagtgc tccaagcag acacaacagc   120
```

agcacagagg tctggaggcc acacaaaaag tgatgctcgc cctgggctag cctcagcaga 180
cctaaggcat ctctactccc tcagaggag ccgcccagat tcntgcagt gagaggaggt 240
cttcagcag cagcaggctt ggagggctga gaatgaacct gactagaggt tctggagata 300
cccagaggtc cccaggtca tcactggct cagtggaagc cctctt 347

<210> 831
<211> 519
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (326)..(326)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (374)..(376)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (398)..(401)
<223> n is a, c, g, or t
<400> 831

gaaccacctc aatgcaaaga ttctacggga aaatgtgggc cccctccacc tattgacaat 60
ggggacatta ctctatccc gttgtcagta tatgtccag ctctacagt tgagtacaa 120
tgccagaact tgatcaact tgagggtaac aagcgaataa catgtagaaa tggacaatgg 180
tcagaaccac caaaatgctt acatccgtgt gtaatatccc gagaaattat ggaaaattat 240
aacatagcat taaggtggac agccaaacag aagctttatt tgagaacagg tgaatcagct 300
gaatttgtgt gtaaaccggg atactngtct tcatcacgt tctcacacat tgcgaacaac 360
atgttgggat gggnnctgg agtatccaac ttgtcanrm ngatagaatc aatcataaaa 420
tgcacacctt tattcagaac ttagtatta aatcagttct taatttcatt ttaagtatt 480
gtttactcc tttttattca tacgtaaaat ttggatta 519

<210> 832
<211> 416
<212> DNA
<213> Homo sapiens
<400> 832

cagccacactc tcaagatttt gaagacattt gcctttgttt tctccagaa actttatagt 60
tttagctgtt ggatctgtga ttatcaccag ttgatttttg tgtatggtgt gaggggggga 120
tcaagattta tttgtatat ggacatccat ctactctaca catttattga aaaaaacaac 180
acctttcttt tccattgaa ttgcgtgggg actttgttaa taaatgaatg gtcatatatt 240
tgggtctgtt tctggactct gtctttcca ctggactaa ttatccattc ttgcatcagt 300
accatacttt ttaattact gtagtttatg gtaagtcttg acatggattt gtaaacctc 360
cagttttgtt cttttaaca aatgtttga ctatttaagt gctttacatt tccata 416

<210> 833
<211> 482
<212> DNA
<213> Homo sapiens

<400> 833

```
agcagatgga gcccaaaagc tttggtgaa ggccaaagca gctgagaaag cagcaaatat   60
tctattaaat ctgacaaaa cattgaacca gttacaacaa gctcaaatca ctcaaggacg   120
ggcaactct accattacac agctgactgc caatataaca aaaataaaaa agaattgtgt   180
gcaggaattt gttgagctga aaaaacaata tgctattctc caacgtaaga caagcactac   240
aggactaaca aaggagacat taggaaaagt taaacagcta aaagatgcgg cagaaaaatt   300
ggctggagat acagaggcca agataagaag aataacagat ttagaaagga aaatccaaga   360
tttgaatcta agtagacaag caaaagctga tcaactgaga atattggaag atcaagttgt   420
tgccattaaa aatgaaattg ttgaacaaga aaaaaaatat gctagggtgt atagctaggc   480
ag
```

<210> 834

<211> 212

<212> DNA

<213> Homo sapiens

<400> 834

```
ccttatcatc cgctcacaggg gtcagaaagg acctcgaggg cctccaccag caggtcacct   60
tctgtgatcc ccattccaag gcactgggtg tgactctgct tctgctactg acccagagcc   120
tctgcctgtg cactgcaagc tgtgtctact caggcccaa ggggactctc tgtttccatt   180
ctccccccac agacctgtca agagaagcat ga                               212
```

<210> 835

<211> 264

<212> DNA

<213> Homo sapiens

<400> 835

```
ttcctaaatg gtcttcttt tccattttt cccttgtaaa ataatctgct ttaatttag   60
cgagctcttc tcattgtgtt atcatttaa tgaataagta aatgagggca gtttgcttac   120
tggttaagaa aggatgcagg ctttagggct ggaagcacct gggttcaaag cctggctctg   180
cctcttatca gctgcgtaac ctttgacaa gttgctttat tgctctaagt ttcagttcc   240
tcctgtgtca actctagagg actg                               264
```

<210> 836

<211> 484

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (190)..(190)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (420)..(420)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (424)..(424)

<223> n is a, c, g, or t

<400> 836

```

tgggatttag tcagtcacag agatactatt actatgagta agaaattaat ggcaaaggaa   60
ttaatccaag aatagaagaa tgaagcaagt tcactttcaa tcaagaaact tcataatact  120
ttcaggaag ttatctttc ctgtcaatct gtttaaaata tgctatagta ttccattagt   180
ttggtggtan cttattttt ttgtgtaatg atctttaaac gctatatttc agaaatatta   240
aatggaagaa atcaatatca tggagagcta actttagaaa actagctgga gtattttagg   300
agattctggg tcaagtaatg ttttatgttt tgaaaagttt aagttttaga cactcccaa   360
atttctaaat taatctttt cagaaatatt gaaggagcca aaaatataaa acagttctgn   420
atanccaaag tggctatatc aacatcaggg ctgacacatc tttctctatt atccttctat   480
tgga
484

```

```

<210> 837
<211> 383
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (319)..(319)
<223> n is a, c, g, or t
<400> 837
gacagaccaa agttaacaa gcctccggaa actcttatca ctactattga ttctagttcc   60
agttggtgga ccaactgggt gatccctgcc atctctgcag tggccgtcgc ctgatgtat   120
cgcctataca tggcagagga ctgaacacct cctcagaagt cagcgcagga agagcctgct   180
ttggacacgg gagaaaagaa gccattgcta actacttcaa ctgacagaaa cttcacttg   240
aaaacaatga tttaatatata tctctttctt ttcttccga cattagaaac aaaacaaaaa   300
gaactgtcct ttctgcgcnc aaatttttcg agtgtgcctt ttattcatc tactttatt   360
tgatgtttcc ttaatgtgta att
383

```

```

<210> 838
<211> 507
<212> DNA
<213> Homo sapiens
<400> 838

```

```

gattcctgtg ggtccagctt tggaactggg aaacctttct tggatccgc actcattcca   60
ctgatgccag ctgccctga aggatgccag tactgtggtg tgtgagtctc agcagccgcc   120
cacacgtccc taactctgct gcatggcaga tgcctaggtg gaaatagcaa aaacaaggcc   180
cgggctgggg ccaggggccag aggggaaggc cctggattct cactcatgtg agatcttgaa   240
tctctttctt tgttctgttt gtttagttag tatcatctgg taaaatagtt aaaaaacaac   300
aaaaaactct gtatctgttt ctgcatgtg ctgcattgac tctattaatc acatttcaa   360
ttcaccttac attcctctcc tcttactag cctctctgaa ggtgtcctgg ccagccctgg   420
agaagcactg gtgtctgcag caccctcag ttctgtgcc tcagcccaca ggccactgtg   480
ataatggtct gtttagcact tctgtat
507

```

```

<210> 839
<211> 502
<212> DNA
<213> Homo sapiens
<400> 839

```

```

ctggagtctg ggggtgtgtg tcatagagat ggtgactggc aaggtttgca cagatgaaga   60
atgaagccta gtagaatatg gacttggaaa atttcttaa tcactactgt atgtaatatt   120

```


tacataaaga ctgtgctgag aagcagtata agccttttta acctccaag actgaagact 180
gcacaggta caagcgtcac ttctctgct gctcctgttt gtctgatgtg gcaaaaggcc 240
ctctggaggg ctggaggcca cgagggtaaa gaagctgcat gttaaagtc attactactg 300
tacacggacc atcgctctg tctcctccgt gtctcgcgcg actgagaacc gtgacatcag 360
cgtagtgttt tgacctttct aggttcaaaa gaagttgtag tttatcagg cgtcccatac 420
cttgtttta atctcctgtt tttgagtg actgactgtg aaacctttac ctttttgtt 480
gttggtggca agctgcaggt tt 502

<210> 840

<211> 328

<212> DNA

<213> Homo sapiens

<400> 840

gatttcttt caccattcgt acataatact gaaccacttg tagatttgat tttttttt 60
aatctactgc atttagggag tattctaata agctagtga atactgaac cataaaatgt 120
ccagtaagat cactgtttag attgccata gactacactg cctgccttaa gtgaggaaat 180
caaagtgcta ttacgaagtt caagatcaa aaggcttata aaacagagta atctgttg 240
ttcaccattg agaccgtgaa gatactttgt attgcctat tagtgttata tgaacataca 300
aatgcatctt tgatgtgtt ttcttggc 328

<210> 841

<211> 546

<212> DNA

<213> Homo sapiens

<400> 841

gacacaggca ggtgactact ccacccgct ggacctgcgg gctggggacg aggctgtgtt 60
cgccagtag gactcctcc acgtagactc ggctgcggag tactaccgcc tccacttga 120
gggctaccac ggcaccgag gggactccat gagctaccac agcggcagtg tcttctctgc 180
ccgtgatcgg gacccaaca gcttgcctat ctctgcgct gtctcctacc gaggggcctg 240
gtggtacagg aactgccact acgccaacct caacgggctc tacgggagca cagtggacca 300
tcaggagtg agctggatcc actggaaggg ctgcagttc tcggtgccct tcacggaaat 360
gaagctgaga ccaagaaact ttgctcccc agcgggggga ggctgagctg ctgccacct 420
ctctgcacc ccagtatgac tgccgagcac tgagggtcg ccccgagaga agagccaggg 480
tccttaccac ccagccgct ggaggaagcc ttcttgcca gcgatctgc agcactgtgt 540
ttacag 546

<210> 842

<211> 399

<212> DNA

<213> Homo sapiens

<400> 842

tcacaaactt ttatactct tctgtatata cattttttt ctttaaaaaa caactatgga 60
tcagaatagc cacatttaga acacttttg ttatcagtca atatttttag atagttaga 120
cctggctcta agcctaaaag tgggcttgat tctgcagtaa atcttttaca actgcctga 180
cacacataaa cctttttaaa aatagacact ccccgagtc tttgttcgc atggtcacac 240
actgatgctt agatgttcca gtaatcta atggccacag tagtcttgat gaccaaagtc 300
cttttttcc atctttagaa aactacatgg gaacaaacag atcgaacagt tttgaagcta 360
ctgtgtgtgt gaatgaacac tcttgcttta ttccagaat 399

<210> 843

<211> 543

<212> DNA

<213> Homo sapiens

<400> 843

```
gtggaatgac atccttactt caaccagaga aaactgctgg atttctgcaa gtcaaaagac   60
attgttctgg ttgcctatag tgctctggga tccctccgag aagaaccatg ggtggacccg   120
aactccccgg tgctcttggg ggaccagtc ctttgtgcct tggcaaaaaa gcacaagcga   180
acccagcccc tgattgccct gcgctaccag ctacagcgtg ggggtgtggt cctggccaag   240
agctacaatg agcagcgcac cagacagaac gtgcaggtgt ttgaattcca gttgacttca   300
gaggagatga aagccataga tggcctaaac agaaatgtgc gatatttgac cttgatatt   360
tttctgggcc cccctaatta tccgatctct gatgaatatt aacatggagg gcattgcatg   420
agggttgcca gaaggccctg cgtgtggatg gtgacacaga ggatggctct atgctggtga   480
atattaacat ggaggggcatt gcatgaggtc tgccagaagg ccctgcgttg tggatggtga   540
cac
```

543

<210> 844

<211> 496

<212> DNA

<213> Homo sapiens

<400> 844

```
ccccgattca gtcccgattt gtgggaggct gggagtgatga gcagcattcc cagccctggc   60
aggcggctct gtaccatttc agcatttcc agtgtggggg catctgggtg caccgccagt   120
gggtgctcac agctgctcat tgcatcagcg atgtgaaggc cgtggagttg cccaccagg   180
aaccgaagt ggggagcacc tgtttggctt ccggctgggg cagcatcgaa ccagagaatt   240
tctcatttcc agatgatctc cagtgtgtgg acctcaaat cctgcctaag gatgagtga   300
aaaaagccca cgtccagaag gtgacagact tcatgctgtg tgcgggacac ctggaagggt   360
gcaaagacac ctgtgtgggt gattcagggg gcccgctgat gtgtgatggt gtgctccaag   420
gtgtcacatc atggggctac gtccttgtg gcaccccaa taagccttct gtcgccgtca   480
gagtgtgtc ttatgt
```

496

<210> 845

<211> 330

<212> DNA

<213> Homo sapiens

<400> 845

```
gcttctcctt gccagagcta ttatgttcaa gctcctgcaa gtggtcaac ctcccagtac   60
tgtgtcactg acccatgctc tgctccctgt tccaccagct actgctgtct ggctccccgg   120
accttcgggg tgagtccctt gagacgctgg attcagcggc cccagaactg caacacagga   180
tcatctggct gctgtgagaa ttcgggaagc tctgggtgct gtggttctgg gggctgtggc   240
tgcagctgtg gatgtggcag ctctgggtgc tgctgtttgg gaattatccc catgaagtcc   300
cgaagtcctg cgttgcctgt accatgaaga
```

330

<210> 846

<211> 453

<212> DNA

<213> Homo sapiens

<400> 846

```
sgatgaaatc tcaactgtaa tgctcagaga tcttttttca ctgtaagagg taacctttaa   60
caatatgggt attaccttgg tctcttcata ccggttttat gacaaagggt tattgaattt   120
attgtttgt aagtcttac tcccatcaaa gcagctttct aagtatttgc ctgtgttatt   180
```

atggatgata gttatagccc ttataatgcc ttaactaagg aagaaaagat gttattctga 240
gtttgtttta atacatatat gaacatatag ttttattcaa ttaacccaaa gaagagggtca 300
gcagggagat actaaccttt ggaaatgatt agctggctct gtttttgggt taaataagag 360
tctttaatcc ttctccatc aagagttact taccaagggc aggggaaggg ggatatagag 420
gtcacaagga aataaaaatc atcttccatc ttt 453

<210> 847
<211> 152
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (53)..(53)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (87)..(87)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (100)..(100)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, or t
<400> 847
caccctgaac tctatgtta ccaatgtgta tegtctccct ctccctaaag tgnacttaat 60
ctttgcttc ttgtgcacaa tgcttnggt tgcaagtcan aagcctgagn caaataaaat 120
tccagtaatt tcgaagaatg tgggtgtggt gc 152

<210> 848
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> miscfeature
<222> (112)..(113)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (267)..(267)
<223> n is a, c, g, or t
<400> 848
cttgactgaa gatattttgc tagggaagtg aaactttaa atttgtaga tttaaaaaa 60
tattgttgaa tgggtgcatg caaaggattt atatagtgtg ctcccactaa cnntgtacag 120
atcaggacac atatttttag acatctaagt ctgtagctta aatggaggtt actcttccat 180
catctagaat tgtttactta gtaattgttg ttcttttat tattatagac ttactatcag 240

ttttatttg ccaagtatgc aacaggnata tcactagtat atgaaaatgt aaatatcact 300
tgtgtactca aacaaaagtt ggtcttaagc ttccaccttg agcagccttg gaaacctaac 360
ctgcctcttt tagcataatc aca 383

<210> 849

<211> 506

<212> DNA

<213> Homo sapiens

<400> 849

ttgccttca gtaatccctt taaggagaaa atatatggac ctgatttcag ccttcagaat 60
ctccaaaaga ggagtcacatc attcatagag cacactaggg tgtaggaga gagctttgca 120
tactctgaga ggctacttgg aaaggcatft tcccaggaga gctctgtcag gtggctgcgc 180
ttcagcccca cccctacacc acagggtctc ctggggtatg ttcttgggca agcaatcaca 240
aagccagaga agctgtaagc tgctgccgg gcctgaggag ctccaaccag ggaagactgg 300
atgtgaggag aggagtcact gtcaccaggt cacagactga ctgagggtgat ggtaggatga 360
ggaggaacag atgcccttct ttaattgggt ctacgttaac ttctcagagg ctctggagaa 420
cgggacagtg gctttctagc ctctgaatgt tccaaataaa attttttggt ctgggccct 480
gtactgtttt acctctaaat tctggc 506

<210> 850

<211> 244

<212> DNA

<213> Homo sapiens

<400> 850

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tcacaccac caagagcgtg tccaggtacc gaggtcagga gcaactgcctg caccccaagc 180
tgcagagcac caagcgctc atcaagtgtg acaacgcctg gaacgagaag cgcagggtct 240
acga 244

<210> 851

<211> 538

<212> DNA

<213> Homo sapiens

<400> 851

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ggatagaagg gtttgcaatg ccatattatt ggtggagggc tgtttaaca tctttgaagt 180
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tttcttcacc tactctccaa atattgtaat gcaaaaagtc tcagtaatga ttggttagta 360
ttaattttgt ggtcattgtt tctcttcgat aaatttattt tcattaaata ctgttagag 420
ggttttgaaa tgtttttcaa atatgtgaaa tgtgaaactg ctgtctttta tattaaagta 480
attaaagaaa atgtattgtg attgaaatta tttggcctc cacaagatgg ctctatga 538

<210> 852

<211> 554

<212> DNA

<213> Homo sapiens

<400> 852

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tgggggggtcc tggccctgt gatgctcccc catccccacc cactctaca tccatccaca 180
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cggcttcaga cactcccagc gccactctt acaggcccag gactggagct ttctctggcc 420
aagtttcagg ccaatgatcc ccgcatggtg ttgggggtgc tgggtgtct tgggcctgg 480
acttgagtct caccctacag atgagagggtg gctgaggcac cagggtctaa caattaaacc 540
agttaagtct ccca 554

<210> 853

<211> 549

<212> DNA

<213> Homo sapiens

<400> 853

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accagacctg tgctgtggtg gagcgatggc tgaaggagct ctatgacctat gctgaagcca 120
cgatcgtcgt catgctcgtg ggtaacaaaa gtgacctcag ccaggcccgg gaagtgcaca 180
ctgaggaggc ccgaatgttc gctgaaaaca atggactgct cttcctggag acctcagccc 240
tggactctac caatgttgag ctagcctttg agactgtcct gaaagaaac ttgcgaagg 300
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tggacaggag cctggcctgg ggagaagagg gcctgttgca tcagcctctg acctggcca 420
gcaccacctg cccccactgg cttttgtgc ccctgtgcc cacttcagcc ccaggacctt 480
tccttgccct ttggttcag atatcagact gtccctgtt cacagcacc tcagggtctt 540
aaggtcttc 549

<210> 854

<211> 554

<212> DNA

<213> Homo sapiens

<400> 854

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acattctctg gcaagtgttc tcagctgaaa agtggttggg gatgattctt accttggtaa 120
ttaaataag ctacacattt gggtaatcta gcaaatgaag tatttttcc ctcttgcaa 180
ctgtgtcag agttactctg gctgagtcac acttcgctg gggaaaacct atggaaccta 240
ctgcaaaaag attgtccaaa atgcctaaga aaatactcct ctgatgcatt tagcctcaa 300
ccctacctgt ctgctgaag ggagaaaaat gtttagtac attataggcc cagcagcttt 360
tattcatgtc caccagctag ttgcacagag aatcatgtgt acctaactaa ggatgatcta 420
ggataagtaa ctctgtttt atattgagta ttttagggaa gtctttaaaa gactgtttt 480
atatctataa atctagggtta ttacaaatac aagaattttg taccttaaat aagcctcatt 540
tctatttctt ctcc 554

<210> 855

<211> 542

<212> DNA

<213> Homo sapiens

<400> 855

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atcttatgta aattattttt agaacacaag ttgggaaatg tggcttctgt tcatttcgtt 120

taattaaagc tacctcctaa actatagtgg ctgccagtag cagactgtta aattgtggtt 180
 tatatacttt ttgcattgta aatagtcctt gtgtacatt gtcagtgtaa taaaacaga 240
 atctttgtat atcaaaatca ttagtttgt ataaaatgtg ggaaggattt atttacagt 300
 tgttgtaatt ttgtaaggcc aactatttac aagttttaa aattgctatc atgtatatt 360
 acacatctga taaatattaa atcataactt ggtaagaaac tcctaattaa aaggttttt 420
 ccaaaattca ggttattgaa aattttcat ttattcatt taaaactag aataacagat 480
 atataaaagt gtaatcttt gtgctatatg gtatgaaata caatattgta ctcagtgtt 540
 tg 542

<210> 856
 <211> 320
 <212> DNA
 <213> Homo sapiens
 <400> 856

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 agtgtggtca ccgagtgagg accctcctca ccaggaaccg catccctgtg ctgcctccac 180
 ctgagagttg ctaggggggt cttgtcgaga tcatgtcatc agcaccctca agtcaagtca 240
 cgggtttcca tagccaggca gttggtatgt acaattcagt tcagcgtatg aactgtatc 300
 tctaactctga tgtccattt 320

<210> 857
 <211> 501
 <212> DNA
 <213> Homo sapiens
 <400> 857

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 aggtctcaag gaagagtcaa ctgggacaag cacaagccca ccggacatgg ccttggtaaa 180
 ggttagcaga ctggtgtgtg tggatctgca gtgcttact ggaaataatt tattcattgc 240
 agatactttt taggtggcat ttattcatt tcctgtgctt taaataaaca aatgtacca 300
 aaaacaagta tcaagctgtt taagtgttc ggctacttgt cccctgggtc agtagaggcc 360
 ccggtttccc agttgtgtac tgtgacaggc tcagcatggg ctcagcagat gctgtcttaa 420
 ttgtggatg atacagaaag ccaggcttg ggatacaagt tcttctctc tcatttgatg 480
 ccgtgcactg tgtgaagcag a 501

<210> 858
 <211> 531
 <212> DNA
 <213> Homo sapiens
 <400> 858

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 tcaaagtggc cattacatcc tcttttaatt ttacataata cagatacttg agaaagtgt 180
 tgtgtgttg tatccaaga aaattctttt tattggtgcc tatattgtaa caattattt 240
 taatgcattg tattttgaag taacgggtca gttaaattt tcacctgctg tgtaactgaa 300
 gcacaattac agtttataat catctgtaga agtctggaga taattttgca actcatgtta 360
 tgggttaaat gaatttttt gtaaaagtaa aagcaacaaa ttataaatt gattatttga 420
 aactttacaa cacaattgca tcccaaatac aaattgtatt gcttattcat tatagctatt 480
 cgtcctgtaa tctgtttcta ggtgaagcat actccagtg ttaggggtt t 531

<210> 859

<211> 493

<212> DNA

<213> Homo sapiens

<400> 859

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ggcagccac aagtttctcg tggggagatg gaggcagagc ccagggtagg ggacagagct   60
gctggggcct ttcctgcct gggaatctgt cccaggaaga gcttccccac tcccatcccc   120
caaattggaa aaaccgtaca ttcaagcctg ttggccctg aaattcttaa gaatctggtt   180
aagaattaac tcactaatgt caaaagtcaa aacctcctag gggttgtcct gggagtcagg   240
ttcacgggta cagaagatga atctcagatg tcaactcaacc tgagccgtca ttctctgtgg   300
cagggtgcc ctgggtttct ctactcaat cctggagtg taagcatttg gattgtgtca   360
cagattacct ttctacctt tctttcttt ttttctttt tttaataatc agtcccaca   420
ccttactgag tattgagtt tagagcttc gcttgatgtg ctgaccaag agactcttt   480
tgtatccttt tct                                     493
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<210> 860

<211> 527

<212> DNA

<213> Homo sapiens

<400> 860

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ttcacgggcc gacgactgag tggaaactgag gcccacgtac tggggctggt gaatcacgct   60
gtggcccaga acgaggaggg ggacgccgcc taccagcggg cagagcact ggcccaggag   120
atctgcccc aggcccccat tgccgtgcgg ctgggcaaag tagccattaa ccgaggaacg   180
gaggtggaca ttgcatctgg gatggccatt gaagggatgt gctatgccca gaatattcca   240
acccgggacc ggctagaggg catggcagcc ttcagggaga agcggactcc caaattgtt   300
ggcaaatgac cccatttta accttcagca tgggagatgc atgccctgaa gacgaggatc   360
cagaaggaa agattgtggc agattgcctt catcattca cctctccaga ctccatttc   420
ttcacaagga tgatgatgga aataaaatga ctggcgtgat gcctggaacc aaggtgctga   480
tctaccacc tactgctacc ttccttagct tcaccctggc tagaaat                               527
```

<210> 861

<211> 464

<212> DNA

<213> Homo sapiens

<400> 861

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atgtacctta tttagcacc agaactaatt tgctaagtct tttgttagt cctgcaagac   60
tgatgcttaa tacacagtct gttctcctgt gtctaggtca ggaactccag ttgcttttc   120
tgttttgtgt cctggttagca gctgttgagt aactttcatt ggaggttggg aaggaagtga   180
ggagaaagtg ttctgttta gtgttttatt tctataata ggatgctgcc taaccagtt   240
catctctatg tctgttcac tgaatattcc gggttaattga aagaaaatat aatggatggg   300
ctccattaaa accagctcaa aaataaattc ttgtcagtaa agatttctg tcaagatgtc   360
ttggattgca cttttgtga ggaaagacag tgtaaatagt taaagaatgt tgataaaatt   420
gaaacatttg gttgtggaat tgtgtgtggt tttagagggt ttct                               464
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<210> 862

<211> 548

<212> DNA

<213> Homo sapiens

<400> 862

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gttcactcgt gtctgctctg gaagataatg gcgttccac tgggggttaa ggaatgtcc 120
agggaaacct ctcaaagtg attactaagg atgacacaca ctattacatt caggccagca 180
gcaaggctga gcgagccgag tggattgaag ctatcaaaaa gctaacaatga caaggacctg 240
agggaaccag gattcctccc tctaccaga tgacacagac aagagttcct ggagaatggg 300
agtgttaaga cttttgactt ctttgaagt ttgtactgc ttggagagt gaatgctgcc 360
aagagttcct cagattacaa acagcagtgg tgccatttcc tccccatct tcatgttaca 420
aacctggaaa ggctagaaca gccattaggc gtcagcatct tgacttttcc ccagcatcac 480
aaacagccat ttctcgggc accaaagtag gttcccttgg ttggaacaat tacactggcc 540
atgccata 548

<210> 863

<211> 505

<212> DNA

<213> Homo sapiens

<400> 863

cgtaggggtg ctgaggttgc ccagggttcc tgacaacacc agaggatttc atggccatga 60
gaggagcagg gcctgtgtat aaataccttc tattttaat acaagctcca ctgaaaacca 120
ccttcgtttt caagggtctg acaaacacct ggcatgacag aatggaattc gttcccttt 180
gagagatttt ttattcatgt agaccttta atttatctat ctgtaataata cataaatcgg 240
tacgcatggg ttgaagacc accttctagt tcaggactcc tgttcttccc agcatggcca 300
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gttccctggg ggaagtctgt tctttggtat ggaattttc tcttcttt ggtatggaat 420
tttcccttc agtgactgag ctgtcctcga taggcatgc aagggttcc tgagagtca 480
ggaaagtct cttgtgaac agcaa 505

<210> 864

<211> 554

<212> DNA

<213> Homo sapiens

<400> 864

gagacagcaa cagccgtagc aaaagcagct gctgctcctg ctatgagggt gtatatatt 60
tttaccaaa gctctggaat tgtacattta tttttaaaa ctcaaaggagg gaaagagcct 120
tgtatcatat gtgaacattg tatcatagggt aatgtgttac agaccctttt atacagtgtat 180
ctgtcttgtt cctgcagcaa aaatcctcta tggacatagg aggtgctgtg tcccatgcct 240
tcttgccctg acagtgtccc atgggcccc tctgctccc tgccccctcc ctgctactgc 300
tgatgcaactg tctctcctt gcagccctg gcttcccagc ctctctcctg acccttcca 360
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agtcttggct gctgcttacc cctagccttg atgcctgccc agggaccccc agccccctcc 480
cggtgccctg cagctttaa agagtgaacc atgtgtattg tacaggcgcg gttgtcattg 540
cagaaaccgc tggg 554

<210> 865

<211> 498

<212> DNA

<213> Homo sapiens

<400> 865

cttctgcag cacgtggtgc tggcggcctg cgccctcctc tgcatctca gcattatgct 60
gctgcccggag accaagcgca agctcctgcc cgagggtctc cgggacgggg agctgtgtcg 120
ccggccttcc ctgtgcggc agccaccccc taccgcgtgt gaccacgtcc cgctgcttgc 180

cacccccaac cctgccctct gagcggcctc tgagtaccct ggcgggaggc tggcccacac 240
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 cagaggcacc tcacgccagc catcgaggag agctcagagg gccgtcccca cctgcctcc 360
 tccctgtgc ttgcattca ctcttggc cagagtcagg ggacaggag ggagctccac 420
 actgtaacca ctgggtctgg gctccatcct gcgcccaaag acatccacc agacctatt 480
 attcttgc ctatcatt 498

<210> 866

<211> 461

<212> DNA

<213> Homo sapiens

<400> 866

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 gggccaggga tgaatatctg agggataaaa attgtgtaag agccaaagaa ttgtagtag 180
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 ctcttagact ctgtccctgg gctagggcag gggaggagg agagcagggt tgggggagag 420
 gctgaggaga gtgtgacatg tggggagagg accagctggg t 461

<210> 867

<211> 398

<212> DNA

<213> Homo sapiens

<400> 867

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 gtatagaaag catgctcatg accctgccgt gtcgtctgag gtaccgttc ttatcctagt 120
 gggtcaggaa gaaaaacgc agtttgcact tcaagacag ctctctaag gctggcatgt 180
 tatctcctg cttgtcttt tgccgttta aaatgtgtaa ttgtccagc attccaatgg 240
 tcttgtcat agcaggggac tgaacaaa aataaacatg tatttgtga attggttga 300
 agaagtctg aatagctctt tactgtcta ctgggggtg ataagattg agtgttga 360
 atttttact aaatgtagct ccaagtcta aatggctt 398

<210> 868

<211> 489

<212> DNA

<213> Homo sapiens

<400> 868

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 aggatggaaa atggggacaa caaaggaaaa gcaaagtgtg acccttgggt ttggacagcc 180
 cagaggccca gtcgccagt ataagccata caggccaggg acccacagga gagtggatta 240
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<210> 869

<211> 495

<212> DNA

<213> Homo sapiens

<400> 869

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tcctgttatt ggagatgaaa ataaaaagca acttatgaaa gtagacattc agatccagcc   180
attactaacc tatctctttt ttgggggaaat ctgagcctag ctgagaaaaa cataaagcac   240
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cctatttatt gtgatgttgt ggttttatta tcttaaacct tgtccatac acttgtataa   360
atacatggat atttttatgt acagaagtat gtctcttaac cagttcactt attgtactct   420
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ggttatgtgg tgact                                     495
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<210> 870

<211> 517

<212> DNA

<213> Homo sapiens

<400> 870

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tctgaaagag caagaagaaa gcttaggcag ccctgtccac cattcccat ttgatgtca   180
gacaactgga gatgggactg aggatccatc cttaacagct ttaaggatga gaatggcaaa   240
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aaaattatca ttacagtgtg ccatattaag ccatgtgaat aagtagtagt cattatttgt   420
gaaaaattcc caaaagctgg ggaaaacaat gtgtaacttt tccagttact tgacacgatt   480
cagtggggga aaaccagcat tttttattct attgata                                     517
```

<210> 871

<211> 519

<212> DNA

<213> Homo sapiens

<400> 871

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tgtctacaca cggtgcaggg gcatactaata agagtctatt cattacagtt tgatggatc   60
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tgcattcaca cgtaaacagg gcaccagtcg ttaacaagtg gaatggaact caaagacaat   180
attctgtct ctgggaatgc agattctaca gttaaaatct gggatatcaa aacaggacag   240
tgtttacaaa cattgcaagg tcccaacaag catcagagtg ctgtgacctg ttacagttc   300
aacaagaact ttgtaattac cagctcagat gatggaactg taaaactatg ggacttgaaa   360
acgggtgaat ttattcgaaa ctagtcaca ttggagagtg gggggagtg gggagttgtg   420
tggcggatca gagcctcaaa cacaagctg gtgtgtgcag ttgggagtcg gaatgggact   480
gaagaaacca agctgctggt gctggacttt gatgtggac                                     519
```

<210> 872

<211> 372

<212> DNA

<213> Homo sapiens

<400> 872

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caccaagacg actgcttcag ctctctctct tctcttact ttctttaata gatatttatt   60
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aaactgtcca gtgaaaaggt gccacaatgc ccagtattgt aaacaacagg ttgcattca 120
tgaagctttc attcattctg gagtctacta atttacctga atggtgtttg cattctgtga 180
aatgcctctc cacgttgc atgtcacact ttgtctgca cataactctt tttcacaag 240
aagggtcact gccacaacag cacagtcagc ggggtgaatta caggtgcctg ctgcctgcct 300
acctgggtaa tctgatcttg tctgtatcgc cgtgtgctca tcaactgaaga attgcaggcc 360
actcatgtca gt 372

<210> 873
<211> 486
<212> DNA
<213> Homo sapiens
<400> 873

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tcacaggcag agaagcctgt ggctaaagtt tccacatccc attaactcag tgcttttgc 120
ttttcatga catggccat agagaaaata ttttttcta gcacacaaga gcaacctgaa 180
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ctgagctcca gcctgtgcc actgataata gcaggacgg cctttctt agagcagctg 360
ataagttcc ctacctgatg gccccctctg acataaactg cacacctggg gtgatggctt 420
aaagccagaa agagctgagg gagtaagag ggccaacctt agggcacgtg ggcattatta 480
aaggtc 486

<210> 874
<211> 532
<212> DNA
<213> Homo sapiens
<400> 874

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tctttagcc tctccttaga ggtgaatgtg aatgaagcct cccaggcacc cgtgaattt 120
ctgaggcctt gcttaagct cagaagtgg ttaggcattt ggaaaatctg gttcacatca 180
taaagaactt gatttgaaat gttttctata gaaacaagt ctaagtgtac cgtattatac 240
ttgatgttg tcaatttca gtccatttc tcaatttat tttttagaa cctagtcagt 300
tcttaagat tataactggt cctacattaa aataatgct ctcgatgtca gattttacct 360
gtttgctgct gagaacatct ctgcctaatt taccaaagcc agacctcag tcaacatgc 420
ttccttagct ttcatagtt gtctgacatt tccatgaaa caaaggaacc aactttgtt 480
taaccaaact ttgttggtt acagtttca ggggagcgtt tcttccatga ca 532

<210> 875
<211> 498
<212> DNA
<213> Homo sapiens
<400> 875

caccaagccg acctcagagt tgttcatctt ccttatggga caaaaccggt tgaccagaaa 60
atgggcagag agagatgacc tcggaagcat ttccacagat ggtgtcaggg ttcaagaag 120
tcttagggct tccaggggct ccttggagc tttagaatat ttatgggtt tttttcaa 180
tatcaattat atggttagatt gaggattttt ttctgtagc tcaaaggtgg agggagtta 240
ttagttaacc aaatatcgtt gagaggaatt taaaatactg ttactacaa agattttat 300
taataaaggc ttatatattg gtaacacttc tctatattt tactcacagg aatgtcactg 360
ttggacaatt attttaaaag tgtataaaac caagtctcat aatgatatg agtgatctaa 420
attgcagca atgatactaa acaactctct gaaatttctc aagcaccaag agaacaatca 480

ttttagcaaa ggccagga

498

<210> 876

<211> 547

<212> DNA

<213> Homo sapiens

<400> 876

gccatcactc tttttgtga ggagcctaaa tacattcttc ctgggggtcca gagtcccat 60
tcaaggcagt caagttaaga cactaacttg gccctttcct gatggaaata ttctctccat 120
agcagaagtt gtgtctgac aagactgaga gagttacatg ttgggaaaaa aaagaacgca 180
ttaacttagt agaactgaac caggagcatt aagtctgaa attttgaatc atctctgaaa 240
tgaagcaggt gtctctgcc ctctcatcaa tccgtctggg tgccagaact caaggttcag 300
tggacacatc cccctgttag agaccctcat gggctaggac tttcatcta ggatagattc 360
aagaccttta cctcagaatt atgtaactg tgattgtgtt ttgaaaaat tattatttgc 420
taaaaccatt taagtctttg tatatgtgta aatgacaca aaaatgtatt ttataaatg 480
ttctgtacaa taaagttaca cctcaaagtg tactcttgga atggattctt tcctgtaaag 540
tcttate 547

<210> 877

<211> 342

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (163)..(163)

<223> n is a, c, g, or t

<400> 877

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ggatgggtatt gtagcatgta ttgttattt tagtcaatag accctctcct tataaatggt 120
gtttagctct cctgttgcat tcatgggcc tgggggttct ctngcagagg atattggagc 180
ccctttttgt gacattacca attacatctt tgtccacgtt taatactttg ttttgaaaa 240
tttaaatgct cgagatttgt gtagagttct aataccaaag acagaagtaa atgtttcca 300
tatactttgt cttgcctgta tgcagccctt gtgtaatatg gt 342

<210> 878

<211> 400

<212> DNA

<213> Homo sapiens

<400> 878

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gtaaacaatg gcatctttga acagtgtgat gagaatagga atgtgggtgt taaagcagt 120
gttgcatttt aatcagtaat ctacctgggtg gatttgtttt taacaaaaaa gatgaattat 180
caatgatttg taattatate ggtgatctt tttgaaaag atgaacaaa ggatttgact 240
gctaataatt tattctctac acttttttc tgaataagtc tctcataatg agtgcagtg 300
cagactgtgc ctactctgat ggtatgtgcc atttgtaaaa taaaatagag cagaaaaaca 360
caaaaagaga acactgggtc agacattcag tgggcaagta 400

<210> 879

<211> 509

<212> DNA

<213> Homo sapiens

<400> 879

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gccccctacc aatgcatatg aagagtatgc ttggggaaga gcttaggaat ggggtgggca   60
tgggactgct gggtagcagc ctttagcaa atctgcatct tctctattt ctgaccttt   120
tccacgtgcc cagtcctatt tctgccagt gaaggcatac taatattctt tatactatt   180
aatcttttgc agaaacctta ctattataac ttgtactct ccagatacca attctcatg   240
ccgagagcat cggaaatgtt ttgtgtctt actgatgttt tcatgatcaa ctgtaaatg   300
taagcagttg acttcataaa aggtatttta actattcttg gagtccttg ctaccaagc   360
acctggttc accatgcgat cactgacttc tctacagtga agactcttc ttaatatagg   420
atttcgtgt gctcttttga ttaaaaatat ctaaccttaa aagacgtaaa aatgtatctg   480
tgaaatccta cttgttagc gttgctgct                                     509
```

<210> 880

<211> 371

<212> DNA

<213> Homo sapiens

<400> 880

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tctctgttc tcttgaagt ccagggaaga aggaggggcc cagccttaa ttagtaatc   60
tgccttagcc ttgggaggtc tgggaagggc tggaaatcac tggggacagg aaaccactc   120
ctttgccaa atcagatccc gtccaaagt cctcccatgc ctaccacat catcacatc   180
cccagcaagc cagccacctg ccagccggg cctgggatgg gccaccacac cactggatat   240
tctggggagt cactgctgac accatctctc ccagcagtct tggggctctg gtgggaaaca   300
ttggtctcta ccaggatccc tgcccacct ctcccaatt aagtccttc acacagcact   360
ggttaatgt t                                     371
```

<210> 881

<211> 317

<212> DNA

<213> Homo sapiens

<400> 881

```
aaatgttgct aagtcctggt atgatggtgt gagcttcctt ggggaagtac ttctgagtt   60
atgtaactaa caggatgttt tactacagat ctggatggct attcagataa catggcaaaa   120
aatgatagca gaagatcatt aaaaacttaa aatatattt attagaaaac atttatctat   180
gaatgaatat ttccttgatg ctggtctctg cacacatatg ctggttact tgcatgcatt   240
cattggtgt tcaataagt agatgattac agataatact gtatttcct tatatggaaa   300
accgttatag acccaat                                     317
```

<210> 882

<211> 534

<212> DNA

<213> Homo sapiens

<400> 882

```
tatattcatc tttcagggt aaattgttt ttctgagttt ctgtaatgc tcatttttac   60
atgctgttac tagcttttt tttaaaaaa agtaaaagt gctgctttct aaaatattaa   120
ttgccftata ttgaaagtg ccattgcaat cgtaagtaga ctatgtattt cctataatga   180
tgtctgatat ttaaatagga aatcagacaa acaatattca gaaagttaa gcatataaac   240
ttttatttt taactgcct agatccctgt attccaaaac ctgctgcac ataataaata   300
tatctatata tatttagcat aagacgtgat attttaatt tcttttttaa aaaattatat   360
ttgtctctta gagttaaata tttcttata taattgttc atatgtcata gtttaatac   420
```

aattcacatg atttctatgt ttcttaatga tattttgttg tgtaaaattg atcggattga 480
ttaaaaaaca aattctctgg aatttgtgcg tcatgcttt ttcgtattct ttat 534

<210> 883

<211> 500

<212> DNA

<213> Homo sapiens

<400> 883

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agaaagtata gccttgcctg ctgtctacat catgatgtat aaattgatat atctacatga 120
attatagaaa cttagaagtg atctttattc agtcttataa tttttacatg aagaatctta 180
ggcctaggag gagaaaatga ttttcttct attacctaac tagattgggg catatttctg 240
ataaaagacc acccttagtg agattcatct tttttgttg tgtgactata ttccatagag 300
aagaaagatg ggatagctca acttcattat ataccaaagc aaaacacatg ccaaagatg 360
actacatttt accaacaatat tttagcagag attcttgact agtgtttact atctataccc 420
ccaaaactac tactatatag acagaatgga aagtatttct atttgcctt tttttgttt 480
ctgttctaatt tgtcagggac 500

<210> 884

<211> 491

<212> DNA

<213> Homo sapiens

<400> 884

gaggaggaac tgacgcagct acgccacgaa ctggagcggc agaacaatga ataccaagtg 60
ctgctgggca tcaaaaccca cctggagaag gaaatcacca cgtaccgacg gctcctggag 120
ggagagagtg aaggggacacg ggaagaatca aagtcgagca tgaaagtgtc tgcaactcca 180
aagatcaagg ccataaccca ggagaccatc aacggaagat tagttctttg tcaagtgaat 240
gaaatccaaa agcacgcacg agaccaatga aagttccgc ctgttgtaaa gtctattttc 300
ccccaaaggaa agtccttgca cagacaccag tgagtgaagt ctaaaagata cccttggaat 360
tatcagactc agaaactttt atttttttt ttctgtaaca gtctcaccag acttctcata 420
atgctcttaa tatattgcac ttcttaac aaagtgcgag ttatgaggg taaagctcta 480
cttctact g 491

<210> 885

<211> 493

<212> DNA

<213> Homo sapiens

<400> 885

cccccatgtt acctggactg gaacagactg tgaatatagc agaaggttcc aagaactctg 60
gtgtctgacc tagaagaggc acagttctct ctactggaaa gaaaacgatg tagccgattg 120
cacaaggggtg ccaagggaag acccaggatg gcccatcaaa ggaacctggg ggaggatgca 180
ggaggctgaa gggatgcacc tggcatttct ctactgtgc tcttaccgca tcagcaaccc 240
ccaacttttg ggctactct gcccccatg cgtgaatacc ctgcttggaat gctgtgcttt 300
tccggtttgt ctctaagccc cttctccag ggcatgttgg ttccctggc ctctcagtgt 360
cctaactgga gccagagtg ccttgttctg agccaggaga cggctgagca ctggccctcc 420
acacctaagc gtcttttaca ttaacttatt ggtcttgtat aacacctggt gccattgcca 480
agtggctgtg tec 493

<210> 886

<211> 518

<212> DNA

<213> Homo sapiens

<400> 886

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gacaacaatg aagtagcccc tgaacagcat ggagttgctg tgagtttgtt cgttcagac   60
ctttgtgtg ggtcctggga atctgagctt tgtccctgt gcatggtgga taattgaaac   120
caagaggaca tgggatatagac cttgtgacag accaattctg tgaccctgt cttctgggtc   180
acattattca ttgttgattt aaatacagga ctaccaaaca gtacaaatct atcatgagtc   240
tggtagaaaa gtaaagtaa aagctgcaca cgttacatac tgtttattgt tctaattgtac   300
aactaactat ttgcatataa tgtgatttaa tttattgctg ttttgttag aaaaggagaa   360
ctaagactg tgatataac ccatgttttg tataatatat tttattctt gtgcgaactg   420
gtcatttaaa atatctactt catttgatgt ttgatataa atgtgtatgt gtcctgttaa   480
atgtttctat caagcaagaa tgccacgtac tcagagta                               518
```

<210> 887

<211> 533

<212> DNA

<213> Homo sapiens

<400> 887

```
gctctggca attagctgga ctccatgacc caccctggt gcagcataga tccgacgtct   60
gtctgggcga agggtagggg tgggtagggg cgggaagcct gagtgcaa atgtcattccc   120
tctactgcct ctctgcct ctccccaccc tgcccacatc cacagagggg agagaagggt   180
catagctaaa tgcaacaaag tctgtatctt gtcccaacct gctttctgt tctgttagca   240
tatcataaag taagcctttc tgggaagga aggttgctat gaaactttt ttcttggtgg   300
aaatggccaa gttaggcac tctgctttt gccttacact aatgcttaga aagctgtctt   360
ttcagtgggtg ttgagcccc cagatgtgtg gccaacctct gctgcaaagg aatctcttgc   420
tgagtccagg ccaccaatca ggcaaatagc ccatacatt gatcgttga aaccatgaag   480
tctttcttg caagacgttt ttctctgct gtggtatctt gccctaaaa att                               533
```

<210> 888

<211> 516

<212> DNA

<213> Homo sapiens

<400> 888

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tggtcacagc gtagtcatt ctttttgag aagttgcttc tttacatca gaaaaccagt   60
caatcatatg gagactctt ttgtatgaa aaagggcttt agaagttaa tacatgcatg   120
cacatgaaaa catgcacaac cacagcctca atctgtatt tagttgggg aaagagaaga   180
gaatttcctg tggattattt ttctcctcaag tgcacctctc tggctaacc aactctgcaa   240
gaaagcactg tgactaaaac atacataacg cctgcataaa tattccatgg tttagttaa   300
atttcagttt tttagcctta cacatgaggt caaggagtga cgaaaataca agcaggaaaa   360
aatgaaatat ctggtttttg ctgaatgctt aattttttt ttactgtgcc actccaatat   420
ttatcaaatc caatagcatg aatgcttctc ttagtaata ctaattttgt gcctttgtc   480
tgctttctta agaccagttg ttacacttt gtagat                               516
```

<210> 889

<211> 529

<212> DNA

<213> Homo sapiens

<400> 889

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cctcccttcc tggaggggatg gccagggaag gagaaaacag agaactgaca ctttgaaac   60
cacagaatgt gttacatgca gactcgctca agggcataag ttattgtgaa cgttttgcc   120
```

aatcactgct caacagccct gctagatttt gtatgatgct gaattattat gcagactaat 180
tccacccagt tgagacacac catgcttggt cacttgattt tattgaaact gtggattctt 240
gccccgtctg tcccttgat ttactttaag cactgatcac ttatcattca ttcggtatgg 300
tttccctgt cccctgtaca cattctggta tgaatttgta aaaataacct gctacaaatt 360
ggttgaatgt ttctgtctgt ggtgcgaacc agcattaacg gatggggcac gtgcccact 420
gaggaacagg agaagaaac accaattgg gctctcagag ctaagacaca cttattgatt 480
ctgtgcaca ttgtcactg gttatggcg attgtttct tggacggat 529

<210> 890

<211> 490

<212> DNA

<213> Homo sapiens

<400> 890

tagagaccca tgcattctta acctaaagg aaatcttatt gcgttatcat aaaattgatg 60
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atcctgagat ttcttaattt catggttctt taaatattat aaacacagag tcaacataga 180
atgaaattgt atttgttaaa atacacacat tggaggacaa gagcagatga ctactttcg 240
aagtaatgct gctccttctt aaaagtctgt ttcaatcct ggtaatatta ggggcactgc 300
ggcacctaag aagccctaaa tgagagctaa tccaatttag agagcgatgg tgtcagcatt 360
tcggtctgca tatctgtgtg tccgtatctg cgtttgtgtg cgtgtacgtg tgcccctgtg 420
tgtgggccca gtttcaggc atgtagaata agcatggagt catattgagg aggactcact 480
tcttgaagat 490

<210> 891

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (289)..(289)

<223> n is a, c, g, or t

<400> 891

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ccaggaggac gtggacaagc tgctgcacct gacacattac aatgtctgca acaaccagga 120
gcagctgctg gaggctctgc gccaggcagt gcagcggagg cggcagcgca ggccccactg 180
atggccgggg ccctgccac ccctaactct cattcattcc ctggctgctg agttgcaggt 240
gggaactgtc atcacgcagt gcttcagagc ctggggtca ggtggcacng tcccagggtc 300
caggctgagg gctgggagct ccttgcgcc tcagcagttt gcagtggggg aaggaggcca 360
agcccatttg tgtaacacc caaaaccccc cggcctgtgc ctgtttccc ttctgcgcta 420
ccttgagtag ttg 433

<210> 892

<211> 399

<212> DNA

<213> Homo sapiens

<400> 892

gaactatcac aattataact taccaacaag aagggaatgc aggtagtgtg ttaggagatg 60
gtacattttt tatataacat tcacttcctt gtgtatttga tagtctttc atggtttata 120
acattttctc ctgtaaagat aggctaattt ctgaaataat aattaaatt atagaaagcc 180

gagaggaaat tgctagtta ttctggtag aggaatttct gtattgaaa attctccaga 240
aggaataata taaactgttg actttgggtg ataatgatat gtaggttcgt cagttgttaa 300
caaatgtatc cctctgttg gggctattga taatggggaa ggctgtgcat gtgtgggagt 360
aggaggtgta tgggacatct ctgtacctc taatcaatt 399

<210> 893

<211> 356

<212> DNA

<213> Homo sapiens

<400> 893

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tttggtatat ttgctgttt ttaatctgac aagcagtaac tcatatggt ttgccttaat 120
atatatttgt ttatgcatg aactcataat ccattgatgc tctttcatga gaagagatat 180
gacctatatt tccttattga tattattggt acaggcagac aaccctggta ggagagatgg 240
attctggggt catgaccttt cgtgattatc cgcaaatgca aacagtttca gatctaattg 300
ttaatttag ggagtaatta tattaatcag agtgttctgt tattctcaat cttat 356

<210> 894

<211> 498

<212> DNA

<213> Homo sapiens

<400> 894

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ctgtgcccgc aaaccagaca cataggacaa agtttatcta taacctggaa gaccatgagt 120
gggtgaaaa catggagtcc gttttatagt gactaaagga gggctgaact ctgtattagt 180
aatccaaggg tcatttttt cttaaaaaaa gaaaaaaagg ttccaaaaaa aaccaaact 240
cagtacacac acacaggcac agatgcacac acacgcagac agacacaccg actttgtcct 300
tttctcagc atcagagcca gacaggattc agaataagga gagaatgaca tcgtgcggca 360
gggtcctgga ggccactcgc gcggctgggc cacagagtct actttgaagg cacctcatgg 420
tttcaggat gctgacagct gcaagcaaca ggcactgcca aattcaggga acagtgtgtg 480
ccagcttggg gcatggac 498

<210> 895

<211> 453

<212> DNA

<213> Homo sapiens

<400> 895

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gtattttgca aaagctactt ttctagtgtt tcagtattac ttcatgttt taaaaatccc 120
tttaatttct tgcttgaana tcccatgaac attaaagagc cagaaatatt ttctttgtt 180
atgtacggat atatatatat atatagtctt ccaagataga agtttacttt ttctcttct 240
ggttttggaa aatttcaga taagacatgt caccattaat tctcaacgac tgctctattt 300
tgtgtacgg taatagtatt caccttctaa attactatgt aatttactca cttattatgt 360
ttattgtct gtatccttc tctggagtgt aagcacaatg aagacaggaa tttgtatat 420
tttaaccaa tgcaacatac tctcagacc taa 453

<210> 896

<211> 465

<212> DNA

<213> Homo sapiens

<400> 896

atattgggtca ttgatcttcg ttcataaatt agtctacaga aaaaaaatgt tctgtaaaat 60
tagtctgttg aaaatgtttt ccaaacaatg ttactttgaa aattgagttt atgtttgacc 120
taaattgggtc aaaattacat tagataaact aaaattctgt ccgtgtaact ataaattttg 180
tgaatgcatt ttcttggtgt ttgaaaaaga aggggggggag aattccaggt gccttaatat 240
aaagtttgaa gcttcatcca ccaaagttaa atagagctat ttaaaaatgc actttatttg 300
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taaaacagac atgtattttt gtttgcgtaa tggatgaaac cattgcattc ttgtacactg 420
atttgaaatg ctgtaaaatg gtcccaattt gtattgattc tcttt 465

<210> 897

<211> 447

<212> DNA

<213> Homo sapiens

<400> 897

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cccaggagcc caccctcccc tctggcccag ccaccactgc ctctcagctt caacaggtga 120
caggctgctt tegtacttg atattggtgt catagcattt ggctacattt aaaagcccca 180
attcaggggg aaaggacaaa atggagagtg actgagggtgc tgacctcagg gcaaggctgg 240
tgaacctgac agcggggccag ctatggtggg aagcctggca ttgggggtgc tcttgcaac 300
gtcttaagca agcgaccccc ctgacatagc aaaaggtggc aacctatgga ggcagaaaga 360
aggacgccag cctgaccttt atctgaaacg tcctaagcag agttaatcct ggctgctcag 420
gagaggcgac acatttcaaa tctccac 447

<210> 898

<211> 468

<212> DNA

<213> Homo sapiens

<400> 898

aactgtgtat acattcttac tgttgaaca actattgcct ttaattaaat gtttcatttt 60
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aatgaaagta ttgactccgt tagagggaaa atgggtttct ctgggtgaat tccaacgaag 180
catacctagg ggtaacagtg aacctacctg gggtttgttt gttttgtaa ggatttatgt 240
agtgtctggc tgtaagcaag aatgagtggg ttataaactt gaagatttct ctgttaaagt 300
cacaaaaatg atcgacaaac aatatttttg tgatgtttat ttaaacgttg tattttataa 360
catacttcaa ggaagagtat cgaagtaagt tgctttataa attaagacta aattcgtatg 420
gatgcagaat tcaattaata aaatttgagc ctgttacgta aattgaat 468

<210> 899

<211> 528

<212> DNA

<213> Homo sapiens

<400> 899

agtgttgtgt agcttaatcc ttctgaagtc tttttgcat gtagctatta atctgtggct 60
atgaaatgat cagaaatgct aagtgagatc aatatttgtt tggaaaaaaa atcttgggaa 120
acaaccaag ggttttcgct gttgtgtttt ttctttttct atttttgttt acttagtcct 180
ttagctagtg gatttaattt tgttgtgcct gtttcatttt gcaataacaa tgcagtagaa 240
ttataaactt ggatgcttaa gaggcctgca tatagataag aatttcaggc aaaactacat 300
ttattgttaa taacagcttg ttcataggct ctgtattttt atgtaactgt gataaataat 360
gaaacttagt tatattgagg ttattgtttg tcggtgaagt gtagtcaca gtattttcaa 420

aagtttgcac atattgttct gtgtaattgt gtaagccata attacagtgt ttaattctct 480
tttcctatta catcattcat tgaaagtgat cactttacca ttttgaaa 528

<210> 900

<21 1> 483

<212> DNA

<213> Homo sapiens

<400> 900

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actccaaaga gataggaaaa ctgccgcct cttcttttt gtcccttaac caaactcaa 120
taagcttaaa aaaaatccat ggaagatcat ggacatgtga aatgagcatt ttttctttt 180
ctttttttt tttttttt aacaaagtct gaactgaaca gaacaagact tttcctcat 240
acatctccaa attgtttaa cttactttat gagtgttgt ttagaagttc ggaccaacag 300
aaaaatgcag tcagatgtca tcttggaatt ggtttctaaa agagtaaggc atgtccctgc 360
ccagaaactt aggaagcatg aaataaatca aatgtttatt ttccttcta ttaaaatca 420
tgctaatgca acagaaatag agggtttgtg ccaaatgcta tgaacggccc tttctaaag 480
aca 483

<210> 901

<21 1> 393

<212> DNA

<213> Homo sapiens

<400> 901

tgccaggggt ggtccacact aaagatgcta gcccctctcc aggtgggcat aaggagtaac 60
agatggcaaa accacaaact atttgatgg actgtgtgc agtatcacca gaagacatta 120
gggggacagta ggccccaca caaaaccttc aggcctgaat tttaaagggg aggactttct 180
gccaactttt ctgtatgcc ttgggaaagc cagttgccct gaaccagca gacaccatgg 240
aatgtcctt gcacgcatta aatggtacag aactgaagcc tcggaagcaa ttggaactc 300
gatcttctct tccttaaag aaaagttatt gaccaaatgg actttttaa agacacagga 360
cccttaactt tgcccaaag tgaggggctc cac 393

<210> 902

<21 1> 563

<212> DNA

<213> Homo sapiens

<400> 902

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ttggacttct gaaaaatgct gaacgagaac aagaatcaga agaagaaatg tgactttgat 180
gagcttccag ttttctaga taaacctttt ctttttaca ttgtcttgg tttgtttct 240
cgatcttttg ttggagaac agctggctaa ggatgactct aagtgtactg ttgcatttc 300
caatttgggt aaagtatttg aatttaaata ttttctttt agctttgaaa atatttggg 360
tgatacttc atttgcaca tcatgcacat catggattc aggggctaga gtgattttt 420
tcagattat ctaaagtgg atgccacac tatgaaagaa atattgttt tattgcctt 480
atagatatgc tcaaggttac tgggcttgct actatttga actccttgac catggaatta 540
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<210> 903

<211> 471

<212> DNA

<213> Homo sapiens

<400> 903

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accgtgggga ggaggaagcg tacctcaact tcattgcccc ctccaagcgg gaggttctacc 180
tgtggacaga tgggctcagt gccttgctgg gcagtcccat gggcagcgag cagacacggc 240
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tgcccatccc cgagcggcca cccctgtgc cccaccccc caccaacttc aacttctgct 360
atgactgcag catcgctgaa ccttgacagt gtggctggcc atgggccaca gctgcggcca 420
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<210> 904

<211> 495

<212> DNA

<213> Homo sapiens

<400> 904

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ccagcagtac gagatgtca agcgtggcg ccagcagcag cccgcgggcc tcggagccgt 180
ttacgcggcc ctggagcgca tggggctgga cggctgcgtg gaagactgc gcagccgcct 240
gcagcgcggc ccgtgacacg gcgccactt gccacctagg cgctctggtg gcccttgacg 300
aagccctaag tacggttact tatgcgtgta gacatttat gtcattatt aagccgctgg 360
cacggccctg cgtagcagca ccagccggcc ccaccctgc tcgccctat cgctccagcc 420
aaggcgaaga agcacgaac aatgtcgaga ggggggtgaag acatttctca acttctcggc 480
cggagtttgg ctgag 495
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<210> 905

<211> 437

<212> DNA

<213> Homo sapiens

<400> 905

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tcagcaacca gccggtctta ttccagtatt atttgccgg tggttattgc ttgattgta 180
ataacacttt cagtatttgt tctggtgggt ttgtaccgaa tgtgtggaa ggcagatccg 240
ggcacaccag aaaatggaaa tgatcaacct cagtctgata aagagagcgt gaagcttctt 300
accgttaaga caatttctca tgagtctggt gagcactctg cacaaggaaa aaccaagaac 360
tgacagcttg aggaattctc tccacaccta ggcaataatt acgcttaatc ttcagttct 420
atgcaccaag cgtggaa 437
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<210> 906

<211> 434

<212> DNA

<213> Homo sapiens

<400> 906

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ttctgagctt ctctgtact gtgcacgtg agggccagag acaggaatgt aaggattggc 120
aactgtgtta ccttcaagt ttatctcaat aaccagggtca tcagggaccc attgttctct 180
tcagaacctt atctgggaga gaaggcgaac cacctccggg ttccatcat gtcaagggtca 240
caggcatcca tgtgtgcaaa ccatctgccc cagctgcctc cacagactgc tgtctccttg 300
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tcctcctcgg ccctgcccc cttcagggt gctgtgagat ggaattccag gaaagaactt 360
cagggtgtctg gacccttct atctagataa tatttttaga ttctctgct ccctagtac 420
ctacctgggg gcaa 434

<210> 907

<211> 551

<212> DNA

<213> Homo sapiens

<400> 907

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gtagattgaa tagtctacat ggtctgtgag tgtgtgagat gaacccttc atcctttgac 180
acctggttgt atgtgtaggc taagaaggaa ggaccctcct gtGagtgtgc aaagctgtaa 240
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agcaggaatg cagatagaac acatctaggc tctttcccc aggagagtga tgatggagca 360
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ctttaacttt ctgaacctca gagtcttcac ctataagacg gggaaaataa taccaccctt 480
tcaagattgt tgagataaat aagtgtatata aaacatgtaa agcttagttc tggccacagt 540
gtagctactc a 551

<210> 908

<211> 413

<212> DNA

<213> Homo sapiens

<400> 908

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cgtcagccac ggggtgggctt tgtgtgcct cgtatcgcc caggtagggt gttggcctct 120
tacttgggct gacctgacct ccgaaagaga aacagacaac tctgttctca ggattgggga 180
tggaaggctt cggccaagcg ttttagcctc attcactcag gccccactca gcactctgcc 240
agccaagacc attgatttgg aaaatccggt cccacccgc taatgagctg ttgacactgt 300
tgttcttgc tgaattggat tgttgacttg tagttcagag gcgtacaact agttggcgat 360
tagacttgtt atgtgatgtt accagcctga aatgcgatca ccccgtagga aat 413

<210> 909

<211> 535

<212> DNA

<213> Homo sapiens

<400> 909

tatgtagtgt gcttttgtc ctttcttc tatcacccta cattccagca tcttaccttc 60
atatgcagta aaagaaagaa agaaaaaaaa aggaaaaaaaa aaaaaaaacc aatgttttgc 120
agttttttc attgccaaaa actaaatggt gctttatatt tagattggaa agaatttcat 180
atgcaaagea tattaaagag aaagccccgt ttagtcaata ctttttcta aatggcaatg 240
cagaatattt tgttattggc cttttctatt cctgtaata aagctgtttg tcgtaacttg 300
aaattttatc ttttactatg ggagtcacta tttattattg cttatgtgcc ctgttcaaaa 360
cagaggcact taatttgatc tttttttt ctttgtttt atttttttt ttatttagat 420
gaccaagggt cattacaacc tggctttta ttgtattgt ttctggctt ttgtaagttc 480
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<210> 910

<211> 366

<212> DNA

<213> Homo sapiens

<400> 910

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tcgctgtgag taccttcacc agaaattgtc ccacattaaa ggtctcatcc tggagtttga   60
ggaaaagaac aggggcagct gaagttatca aggggaatttt tgagcctctg cttagtga   120
cacaaaggaa caaagcagct ataaactaaa tagaatgcaa ctatctgctt ttcttatgct   180
gaccactgga gtccatgggt gcaagtagag agctgctcta ggttcttgag gtttggttt   240
cattattaat ttttaggga tgggcactgt gcaaagactc catagctgtg cctaggagtc   300
taggaaaagt gacagaggct tggctttttt acctttagtt cagccaagtc atttcaagt   360
cctgag
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<210> 911

<211> 532

<212> DNA

<213> Homo sapiens

<400> 911

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gccacttggc attagagggt cttcatggg gagagaagga gactgaatta cttaagcaa   60
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tctcgtggaa cacaggcaaa cccgtgattt tgggtctcct tgtaactcag ccctgcaaag   180
caaagtccca ttgatttaag ttgttgcatt ttgtactggc aaggcaaaat attttatta   240
cctttctat tacttattgt atgagctttt gttgtttact tggaggtttt gcttttact   300
acaagtttgg aactatttat tattgcttgg tatttgtgct ctgtttaaga aacaggcact   360
ttttttatt atggataaaa tgttgagatg acaggaggtc atttcaatat ggcttagtaa   420
aatatttatt gttcctttat tctctgtaca agattttggg cctctttttt tccttaatgt   480
cacaatgttg agttcagcat gtgtctgcca ttcatattgt acgctgttc aa           532
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<210> 912

<211> 404

<212> DNA

<213> Homo sapiens

<400> 912

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gtatcatgtt ttactacata ggtaatttt ttaagggatg ttgcaaaggg attactagag   60
aaagacaaaa tgtgacaaaa aaaaagcatg aatatttctt aagtatctca acaacatgtc   120
aaagctgcat gttaggatg tatgctgttt gtacaaacta tticagaata tttgtgaagc   180
tataacatat ttattgtgca ttaaaattaa atacttttc cccaaaggca tgcagtcatg   240
agaattacag aaaatttgca acatataaag tagtttgatc taagaggatt caacaccttt   300
gtttgttgc tcaagtgtga atgactgaga ttgttaaate tttgtgaaca ttctgtactg   360
gttccaaga gctattcatt cctgctacc tgatttcagc acaa           404
```

<210> 913

<211> 503

<212> DNA

<213> Homo sapiens

<400> 913

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tgttccaggt ggccatagtc agtcaccatg tgtgggctca gggaccccca ggaccaggat   60
gtgtctcagc ctggagaaat ggtggggggg cagtgtctag ggactagagt gagaagtagg   120
ggagctactg atttggggca aagtgaacc tctgcttcag acttcagaaa caaatctcag   180
aagacaagct gacctgacaa gtactatgtg tgtgcatgtc tgtatgtgtg ttggggcggt   240
gagtgaagg atgcagtggg agcatggatg ctggcatctt agaaccctcc ctactcccat   300
acctcctct ctctgggct cccactgtc agacgggctg gcaaatgcct tgcaggagggt   360
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agaggctgga cccatggcaa gccatttaca gaaaccact cggcacccca gtctaacacc 420
acaactaatt tcaccaagg tttaagcac gttcttcat cagaccctgg cccaatacct 480
atgtatgcaa tgctcctcag ccc 503

<210> 914
<211> 331
<212> DNA
<213> Homo sapiens
<400> 914

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aggcagggtc ctctgggaag ttactctaga aaacgaagg aggaggagca caagatcctc 120
agcaacgaac acctgcactt agaaaaagt gacagcttct gccaacca cactacccat 180
ggtactgtat gctattaact cctggaaacg ccccgtaa at gcgagtgtt ttgtatttg 240
tgtgttgaga tgggccttgt gtttctctg tactcagagc acatttctg taattactat 300
tgttatttt attgcatga ctgccctga g 331

<210> 915
<211> 434
<212> DNA
<213> Homo sapiens
<400> 915

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tgggagctca ggccccgcaa cccaggggt caacatggcc aacagcatcg ccagcctccg 120
tctcaaggcc aaggagtca gcctgcacca cagccagggt cctacggtga actgaagtcc 180
agtccacca ggaccagac gcctccctgg gtggacagca atagaaaagg gggcagacgc 240
ccaggaagt gacctctct gcatgagctc tctggccc tctgtccagc ctggactccc 300
gagcccacga ggctgttgag gcccctgcag ccgggccag ctcttctgtc ctggccacc 360
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gacctcattt agtt 434

<210> 916
<211> 488
<212> DNA
<213> Homo sapiens
<400> 916

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aacaagtatt ttctatata taaagacaac aaaagaaatc tctaacaaa agaactaaga 180
ggcccagccc tcagaaaccc ttactgtcta catctgttg cttttaatg gaaaccaagc 240
caatgttata gacgtttgga ctgatttg gaaaggagg ggaagagg agaaggatca 300
ttcaaaagt acccaagg cttattgact ctttctattg taaacaaat gatttcaca 360
aacagatcag gaagcactag gttggcagag acactttgtc tagtgtattc tcttcacagt 420
gccaggaaag agtggttct cgtgtgtat attgtaata tatgatattt tcatgctcc 480
actatttt 488

<210> 917
<211> 381
<212> DNA
<213> Homo sapiens
<400> 917

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gattaaagta tctccgcttt ctggggaggg aataggggat gtttatcag tgaatgtgcc 120
atacaccfta tggccactt catgtgcctt tcagacttca aagcgcgcgc gcatgtgtgt 180
gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgcttctt tctctccta aaaatcgata 240
agtagctcca cctgaagagg gatggaacct ctgggtcagg aaacagctgg aatccacact 300
cacctcattc ccattgtttg gatcatgctt cttccaaca cgtgttcaca atctccaaag 360
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<210> 918

<211> 569

<212> DNA

<213> Homo sapiens

<400> 918

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cccgtgtctg tgcgtgtgcg tgtgtgtttc atacagctag cattagatgg gtgatgtttc 120
ttacttatca tccctaacta ttgcaacttg accttaaaaa gacaaaaccc cacaaaactc 180
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tttcataaat gttataattt tgtgtctgtc ttataaact attataagta ctattttgt 360
tataattcaa aatagatatt tagtataaag ttttgctgt taaatatttg ttatttagta 420
aaatatgaat ttgctctat tgtaaacatg gttcaaaaata ttaatatgtt ttatcacag 480
tcgttttaat attgaaaaag cacttgtgtg tttgttttg atatgaaact ggtaccgtgt 540
gagtgtttt gctgtcgtgg tttaactt 569

<210> 919

<211> 460

<212> DNA

<213> Homo sapiens

<400> 919

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taagttctcc cagtagagat tgagtttgag cctgtatatc tattaaaaat tcaacttcc 120
cacatatatt tactaagatg attaagactt acattttctg cacaggtctg caaaaacaaa 180
aattataaac tagtccatcc aagaacaaa gtttgataa acaggttgct ataagctgg 240
tgaaatgaaa atggaacatt tcaatcaaac atttctata taacaattat tatatttaca 300
atttggttc tgcaatattt ttcttatgtc cacccttta aaaattatta ttgaagtaa 360
tttatttaca ggaaatgtta atgagatgta tttcttata gagatatttc ttacagaaag 420
ctttgtagca gaatatattt gcagctattg actttgtaat 460

<210> 920

<211> 540

<212> DNA

<213> Homo sapiens

<400> 920

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gcagtcacct atgtgaacag ctgcttggtt gtggccgtgc tggtgattct gatcggatgt 120
tacatagcca tatccaggta catccacaaa tccagcaggc aattcataag tcagtcaagc 180
cgaaagcgaa aacataacca gagcatcagg gttgtgtgg ctgtgtttt tacctgcttt 240
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gaatctgcac aaaaaatcct atattactgc aaagaaatta cacttttctt gtctgcgtgt 360
aatgtttgcc tggatccaat aatttacttt ttcatgtgta ggtcatttcc aagaaggctg 420

ttcaaaaaat caaatatcag aaccaggagt gaaagcatca gatcactgca aagtgtgaga 480
agatcggag ttcgcatata ttatgattac actgatgtgt aggccttta ttgtttgtg 540

<210> 921

<211> 232

<212> DNA

<213> Homo sapiens

<400> 921

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actgaacggg ctacaggaaat gttcctttac actcagaaca ttctatttta agtatattat 180
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<210> 922

<211> 424

<212> DNA

<213> Homo sapiens

<400> 922

aaatgactgt cttatcactc ttatttgaca ttctgtaggt gtaagagaaa tggaaatgaa 60
tggtttcaac aaagatcatt taatacagca gagcatggca tgaccaagca tctttgtaa 120
gtgttagatg gaaaatgctg tgtgctgcc tggtaatcag aaataataac ctgttaggga 180
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gccataaagc tgatattctt tgtccgatta attgaaatc tgcacagaag ctgttttagt 360
cattaatgtg taacaaaagt agcttataga atatggactg cttattgct gttgcttacc 420
attt 424

<210> 923

<211> 571

<212> DNA

<213> Homo sapiens

<400> 923

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atataaatca aaatgtacaa aagatcaatg aacttgaagc tgctcttcag aagaaagatg 180
aagatatgaa agcaatggag gaaagatata aaatgtactt ggagaaagcc agaaatgtaa 240
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tccgtgatta tgaagaaaaa ctattgttt ctgcgtggta taataagagt ctacattcc 420
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cgtgcactcc tgcgcgtct tcttagcgc agcaacggca catcaccaac accagaagaa 540
atctctctgt taaagtcct gctacaacat c 571

<210> 924

<211> 385

<212> DNA

<213> Homo sapiens

<400> 924

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gatcttttat aaatgtttcc ttataaatat ctaccatta caacaaattg tttaactgt 120

ttttctatta gctctagctg catatttgat gtaaatgaca attactgaaa aaatgtcaga 180
aaaaacattt tcagtactaa cattaaagt ccatatgtaa aaaagaaaaa tgtgatttgt 240
ataactaaat aacacacaaa catcaagagg ctatttatac aaataattta ttccactag 300
ggaaagtga ttaactggga aggtattatc aatttattct acttgcttat aatgttacag 360
tgaatgttct ggcttactct gcctc 385

<210> 925

<211> 386

<212> DNA

<213> Homo sapiens

<400> 925

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cgatgtggca atcgaactca aagctgtgtt cacagatcgg cagctactca gaaattcttg 120
tatatctggg gagaggggtg aagaacagtc agcaatccct tactttccat tcattccaga 180
ccagccattc aggggtggaaa ttctttgtga gtacccacgt ttccgagtgt ttgtggatgg 240
acaccaactt ttgattttt accatcgcat tcaaacgtta tctgcaattg acaccataaa 300
gataaatgga gacctccaga tcaccaagct tggctgattt aaaccacctc tatttcaaat 360
aggatcacgt gccacaacta tctgac 386

<210> 926

<211> 480

<212> DNA

<213> Homo sapiens

<400> 926

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atcagcactg gaatgcaaag accagaacaa acagaaggaa gccagcagcc aagccggggc 120
agtttcagtc tccaccccaa atgcaggact gtagaagcgg ccaggaagaa aaccaccccc 180
tcttaagggt gttttgtga ccgttctttg gagcattgtt ctaaaaatgg gaaattacat 240
attgctgtgc caagggcaac aaacacctgc agttaaagga ataccttccg cgaggcggct 300
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ctgcttggtg catttctca ctgcaaggg gacagagtgt gggcttaggt ttgggactag 420
agggggcttt ggcaactatg gtgctcaggt gattatcctt cgctcgttta tccaataaac 480

<210> 927

<211> 514

<212> DNA

<213> Homo sapiens

<400> 927

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gcttcattcc tctgatagaa caaagcgaaa tgcaggtcca ccaggggagg agacacacaa 180
gcctttctg caggcaggag tttagacccc tatcctgaga atgggggttg aaaggaaggt 240
gagggtgtg gcccttgac ggggtacaata acacactgta ctgatgtcac aactttgcaa 300
gctctgcctt ggggtcagcc catctgggct caaattccag cctcaccact cacaagctgt 360
gtgacttcaa acaaatgaaa tcaatgcccc gaacctcggg ttctcatct gtaatgtggg 420
gatcataaca cctacctcat ggagttgtgg tgaagatgaa atgaagtcac gtctttaaag 480
tgcttaatag tgcctgttac atgggcagtg ccca 514

<210> 928

<211> 554

<212> DNA

<213> Homo sapiens

<400> 928

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accacactcc agctgggac acatgtggac tttatttcc agtgaaatca gttactctc   120
agttaagcct ttggaacag ctgcacttta aaaagctcca aatgcagctt taaaaaatta   180
atctgggcca gaatttcaaa cggcctcact aggcttctgg ttgatgcctg tgaactgaac   240
tctgacaaca gacttctgaa atagaccac aagaggcagt tccatttcat ttgtgccaga   300
atgctttagg atgtacagtt atggattgaa agtttacagg aaaaaaatt aggccgttcc   360
ttcaaagcaa atgtcttctt ggattattca aaatgatgta tgttgaagcc ttgtaaatt   420
gtcagatgct gtgcaaatgt tattatttta aacattatga tgtgtgaaaa ctggtaata   480
tttataggc acttgtttt actgtcttaa gtttatactc ttatagacaa catggccgtg   540
aacattatgc tgta                                     554
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<210> 929

<211> 547

<212> DNA

<213> Homo sapiens

<400> 929

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gaacgtcgtg tgagatccta caatggaaga ataaatcac ctactcttc attcagatc   60
tgaacattag cagtgatcta gattttttt tttaaaca aaattaagtg tgcttagagt   120
catccctcta catgggctgt ggctgtcagc ccatagggtt gtcagttca catcaaaact   180
gtgggtataa actgttgaaa ccaatcacat taaaatatt agctgggcac agtggtgtgc   240
atctgtagtc ccagctactt gggaggctga ggcaggagga tcgcttaagc acaggagtgt   300
gaatccagcc tgagcaacag agcaaaaccc cgtctctaaa atacaaataa aatattgtg   360
tagttttga ttaaattga ctacagcggg cagtataaaa tacatgtcgc tttaaggaa   420
gtgctcttta tgatctaac agatggaagt ttgtcattg gtaagagcat ttatatatgc   480
ttgtttcag ggtttatgga ttgtattca tatattgtca aataggtttc atactctaat   540
tttactt                                     547
```

<210> 930

<211> 402

<212> DNA

<213> Homo sapiens

<400> 930

```
gatgagatgg ttgttgcct agtctgttg tagaaccaga aatcaatatg ttgtcttta   60
ggttaaagct tgtacaaaa tatttattc cccatttca agccctgagt caaacattt   120
tttctctaa taatagacct gaaatgttt attagtatt ctgtgaaatc agtgattct   180
tgtgccatt ttgtatatgt aattgtaatt ttgccatgt taggccctct aaaaaatgt   240
tgacatcctt tgagatattt tattactaaa atctgatctt ttttggtac tgcaaaaatc   300
tattcagcaa gaaggtatca gctgcatacc ttgcacagtg gagctgacta cctataaact   360
ctccctaagg cattgttta caggtgtatt ccatttagc ag                                     402
```

<210> 931

<211> 452

<212> DNA

<213> Homo sapiens

<400> 931

```
cgccgactct ttctactgag ttccagagg aagactagcg cggccaccgc gaagccgcca   60
acccaccgga gagggggcct ctgaacttgg actcctggga acatggacaa gcccggcgt   120
```

gccacgccgg ggcctccacc gcctgggcct gagcctgacc gggccattcc caaattggg 180
acgcggaagg agaggctctc ggagcagaag aggccagata ccctgaagca taaagttaa 240
cgtcaaaagt ttaacatgga gaaggcgggt ccgttctgaa gcgtggtctg ctgtcccctg 300
ggcgtgaggc ctctggggcc tgcggggcct ccgatttcat cctcagacgt aatgctcacc 360
aacagcactt gcaactgagt gactcttgca cactcgactc cataatatga tgcttttaa 420
gatgtatgtt cacaccaata attgcctgtc tc 452

<210> 932

<21 1> 496

<212> DNA

<213> Homo sapiens

<400> 932

tgacaggacc aggatgtccc tcattcttgc caaccagaca gaggaggata tcttggtcag 60
aaaagagctt gaagaaattg ccaggactca ccagaccag ttcgacctgt ggtacaccct 120
ggacaggcct ccattgggt ggaagtacag ctgaggcttc gttactgccg acatgatcaa 180
ggagcacctt ctcctccag cgaagtccac gctcctctg gtgtgtggcc cgccaacact 240
gatccagacg gcggctcacc ctaacctgga gaagctgggt tatacccagg acatgattt 300
cacctactaa caaacacctc catgtgctca gcaaatttgc atgtccctt tcattgttt 360
cagagtaagt tcaatttcc cacggtaaac tgggatgtt tcaaaagtgc cttgccatgt 420
accttcgcgc acacactggt tctcctctt tgggtgtggg ctaacaaaa agggctcaag 480
gggctggaga ctggct 496

<210> 933

<21 1> 487

<212> DNA

<213> Homo sapiens

<400> 933

ggcccacctc agctgtagt gtacctgcca cggggccagc ccccccacagc gcaggggctg 60
gtctgtcg ggtatctcagt aaggaggtgg tgcggaggca agaggctggg ctaggtagc 120
ctagcttgggt ggccctgggt gtgtttgggg cctcactgc tgccttggt ctggtactg 180
tgttctgac cctgagggcc tggcgccggg gtgtctgccc ccctggaccc tgttctacc 240
ctgccccaca ctatgtcca gcgtgccagg accaggagtgc tcaggtagc atgctgccag 300
cagggtccc cctgccacgt gacttcccc ctgagcctgg aaagaccaca gcaactgtat 360
ggaggtgggg gttttctgc ccccttctc accttcca cccctcagac tggagtgtc 420
cgttctacc accttcagc ttgggtacac acacagagga gacctcagcc tcacaccaga 480
aatatta 487

<210> 934

<21 1> 321

<212> DNA

<213> Homo sapiens

<400> 934

tccattacca agagctcatg ccacccggtt cctgcatgcc agaggagccc aagccaaaga 60
ggggaagacg atcgtggccc cggaaaagga ccgccacca cacttgtgat tacgcgggct 120
gcggcaaaac ctacacaaag agttccatc tcaaggcaca cctgcgaacc cacacagggtg 180
agaaacctta ccaactgtgac tgggacgggt gtggatggaa attcggccgc tcagatgaac 240
tgaccaggca ctaccgtaaa cacacggggc accgcccgtt ccagtgccaa aaatgcgacc 300
gagcatttc caggtcggac c 321

<210> 935

<211> 194

<212> DNA

<213> Homo sapiens

<400> 935

```
gcatcagtga atcgggccac atctgcagcc agatgttcca aggccagatc ctggacgtga- 60
agggaggccg gggctacgac cgggaccacg tgggtctatg ggagccggat gaggacaggg 120
catccagat ctggactatc cacgtgcttt gaaactttc cctcaccct ccagccctgg 180
aggcttttgc tggg . 194
```

<210> 936

<211> 415

<212> DNA

<213> Homo sapiens

<400> 936

```
aaagactgga acccacgttc tcagctctca ccaagtggac ttttgcggg gtgtggcggc 60
cgggtctcga ccacagcgtg gatcaccggc tgttaggaa actgcagctg cacaacgtgg 120
ggtgcaaaac tgccccgctt cctttacagc tcttctcaac cctcacctcc atccccgctc 180
accaggcac cttcgttcc agatgctgcc aggtgtcac tcaattcggg catttcattc 240
atttatcaca catgggcact ggggttgggc taacagcaag agacaatagg cctttgttcc 300
tatttattgg gtactgctta cgtgctaagc agatcagttt attaatgct tgcaacgact 360
ctctgaggta gaaaatattg ttaattccgt tcaggatccc ggctacataa tctgt 415
```

<210> 937

<211> 523

<212> DNA

<213> Homo sapiens

<400> 937

```
agctcacgat gggcagtggt ctccatacta ttattagctc tcattgtccc cctgggccta 60
gccgtagggc tggctgtgac tggaggggag tctgaaggag ggccgggctt agcccaggct 120
gtgttagagg gtgtggcagc tggtaacctc ctgtatgtca ccttcctaga aattcttcca 180
cgggagctag ctatgcctga ggccccctca gctaagtgga gctgtgtagc cgctggtttt 240
gccttcatgg cctttattgc cttgtgggcc tgagagattc ctggcttttc tgatggacct 300
attaggaca acctctctat cccaggggag acctcccaa tggttttgac cctcagacat 360
ttcttactc agactaaata gcattcagta ggactggact ggaccccagg ttcctttac 420
atgagatccc attctcacc ctggactaag acaaagatat ttagggtgag cagctattaa 480
ttggagaatt ggtacagaga cgctccagat ttattctta tec 523
```

<210> 938

<211> 511

<212> DNA

<213> Homo sapiens

<400> 938

```
aaggaaactc atctccgagg ttgacagcga cggcgacggc gaaatcagct tccaggagtt 60
cctgacggcg gcaaggaagg ccagggccgg cctggaggac ctgcaggtcg ccttccgcgc 120
cttcgaccag gatggcgacg gccacatcac cgtggacgag ctgagcgagg ccatggcggg 180
gctggggcag ccgctccgc aggaggagct ggacgccatg atccgcgagg ccgacgtgga 240
ccaggacggg cgggtgaact acgaggagtt cgcgaggatg ctgcccagg agtgaggctc 300
ccgcctgtg tccccctggc tgcgtctga gccttcaggg ccaccgcccg ctgctgcttt 360
tgtgtggga ctctccgggg aaacctggtc ggtgatggg aaactgcctc cccctgggag 420
gaaggctttg cgctccgggg cctggatgcg gcgccctcgg gccgcctgcg agcccctctc 480
```

tgccttcaga ccttgggcag aaggaggcct c

511

<210> 939

<211> 389

<212> DNA

<213> Homo sapiens

<400> 939

ctagaatttc catgtctctg cttagctgtg ctggcagcta gcagctggct gtgtttgcag 60
tgcaaatagc tctgttcttg gaaatcctgc tcatggtatg tccccagtgg tttcttcac 120
cacatcatct aaagcctgaa cccgttcttc tctggttcaa gtcagtggct gacacggact 180
tgtatctcct tcagagctcg gctggcaccc agcctccctt ctcttccac tcccttagta 240
cactggagtg ccgagccctg ccttccaccc agcgtccatc cagccctgt cctcacctct 300
ccggcacctc ctctccttc tgatttctct atcttctgt gtctgtgca tgggaagcag 360
ccttcagtgc cttcatgaat tcaccttc 389

<210> 940

<211> 466

<212> DNA

<213> Homo sapiens

<400> 940

gcatgtgttt ggtatcttca acagtagacc aagaatctaa catcactctc agtaatatag 60
agaccggaat acatgggtta taggaaatga tcaaatgac caaaaaact ccacattttt 120
taagaagtg gaatttgatt tcatgcataa ctgtattaaa acattaaata gaaataatgt 180
catttgaatg aaaatcttat cacattaaat tcaacttgaa ggcagcatac ttaaaggaat 240
ttgatttcat gcataactgt attaaaacat taaatagaaa taatgtcatt tgaatgaaaa 300
tcttatcaca taaattcac tgtgaaggca gcataactaa atttttattt tgaaaagtct 360
aaaaggctta gatttttaaa atttaataat tatttctaca aattttctat ttttctgag 420
gtgatttca actagcaatt ggaactccta ggctctatta acataa 466

<210> 941

<211> 505

<212> DNA

<213> Homo sapiens

<400> 941

ttcctgttac ttcacctca ggtcgtaact ttctttatgt gtttcattac agtcctaaaa 60
agcctccag aatttctga ggcaaaaaca ccctccctt ttgagaaacc taggggcaca 120
ttgggtaata agagtacctt aaatttaata ttaaggctgt ggggtggtgat tgcttaattc 180
tgcaggacac atttactgca tcttatttct ggaaacctca tgaactgata gttaggcaaa 240
caaatggttg atttgatttt ttttaataa atctatttgg attttctgca aattcggtaa 300
aaccatcag tcttaattcc acataatcca cttagctttt tgccttaaa aatgctgaca 360
gtctgacacc aaactctggt ctctctctga ccactaatca aatgttctct ggatggatac 420
atactgattt cttactgata tataatgact ttttattgta ttgtatact gcaggcttct 480
ggtagccact taaccatacc agcaa 505

<210> 942

<211> 545

<212> DNA

<213> Homo sapiens

<400> 942

aactgatggc tggcatctga tatgcagagt tagtcaacag aactggcat caattacaaa 60

atcactgctg ttctgtgat tcaagctgtc aacacaataa aatcgaaatt cattgattcc 120
atctctggtc cagatgttaa acgtttataa aaccggaaat gtcctaaca ctctgtaatg 180
gcaaattaaa ttgtgtgtct ttttgttt gtctttctac ctgatgtgta ttaagcgct 240
ataacacgta ttccttgac aaaaatagt acagtgaatt cacactaata aatgttcata 300
ggttaaagtc tgcactgaca tttctcatc aatcactggt atgtaagta tcagtgactg 360
acagctaggt ggactgcccc taggacttct gtttcaccag agcaggaatc aagtggtag 420
gcactgaatc gctgtacagg ctgaagacct ccttattaga gttgaacttc aaagtaact 480
gttttaaaaa atgtgaatta ctgtaaaata atctatttg gattcatgtg tttccaggt 540
ggata 545

<210> 943

<211> 414

<212> DNA

<213> Homo sapiens

<400> 943

gggctgatca ggttggggta tgcaagaatc tcccatgctg aactgagtga tcagaaatt 60
cagatggcaa aatttaggat ccctgatgac ccactaatt atagagacaa ccagaaagtg 120
gtcatagacc acagagaagt ttctgagaaa atcatttta atcccagatt tggatcctac 180
aaagaaggac acaattatga aaacaacct aatttcata tgaatactcc caaatactt 240
ttatgaaca tttaaaca gaagttattg gctgggaaaa tctaagaaaa aaagtatgta 300
agataaaaag aagagattaa tgaaagtggg aaaatacaca tgaagaacct caactaaaa 360
aacacatggt atctatgcag tgggaatta cctccatttg taaactatgt tgct 414

<210> 944

<211> 163

<212> DNA

<213> Homo sapiens

<400> 944

gaaaagtgc tctaataag tgatatttct gggatatatc acttcagcac ctggctccag 60
agattatcta cagctcactg aacatggcaa tgtgaaggat atcgacagca ctgatcatga 120
cagatggtgt gaatacatta tgtatcgagg gctgatcagg ttg 163

<210> 945

<211> 553

<212> DNA

<213> Homo sapiens

<400> 945

atttctcgg aagctgagcc agtctcctgg tctagcccag gttgccagaa cgcttgcat 60
tgcagagtgc tagagccagt ggagaacttg ccaactgat tgtttacag cagaggaaag 120
aggatcacag agggaaaatg attcaccaa agtcacacag caagttcatg gctgagctga 180
gaccaggatt aagcttcctg actcccagtt caccatgaaa agggttctgg caacagggtc 240
aagctggaga atccttcaa atgtacacac cacattctct ccaactcttc atctccctga 300
tcttcagac aaactacctg gatgtgccc ttaaaccatt tctagctgtt aaccctatcc 360
agaaaaatga ttgagtata gctgagaagt ggaaagtgtg ggatttttg caggtgctct 420
cttctcctc cccccgcgc catctttct ctctctctc tctgtaatgg tatgtccagc 480
ctcactctcc ctccctggtg ctgtatgcgt tccccctgt agctacatt gtgatcat 540
acccttctttaa 553

<210> 946

<211> 560

<212> DNA

<213> Homo sapiens

<400> 946

```
gagtgcagta gcacgatctc ggctctcacc gcaacctccg tctcctgggt tcaagcgatt   60
ctcctgcctc agcctcctaa gtatctggga ttacaggcat gtgccaccac acctgggtga   120
ttttgtatt tttagtagag acgggggttc accatgttgg tcaggctggg ctcaaactc   180
tgacctagt atccaccctc ctggcctcc caaagtgtg ggattacagg catgagccac   240
cacagctggc ccccttctgt tttatgttg gttttgaga aggaatgaag tgggaaccaa   300
attaggtaat ttgggtaat ctgtctctaa aatattagct aaaaacaaag ctctatgtaa   360
agtaataaag tataattgcc atataaattt caaaattcaa ctggcttta tgcaaagaaa   420
caggttagga cacctagggt ccaattcatt cacattcttg gttccagata aaatcaactg   480
tttatcaaa ttctaattg atttgctttt cttttatat ggattcctt aaaacttatt   540
ccagatgtag ttccttccaa                               560
```

<210> 947

<211> 288

<212> DNA

<213> Homo sapiens

<400> 947

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ggctgaaagg attttacatt tattcaaagt caaaagggaa aagaaatcca agaactacag   60
aagagcagtt gaagtgaatt atgcttgatt tctaaatgca acttatgttt atacataatt   120
taaaactcaa agaaagcatg ctatacaat catgtgcaac tttaaacttt aagaactctg   180
gatgaataca tgggtggcaac agtccatgac acctgaaaac atcatttttg gagtggcgta   240
gagttcagtg ttcgcagtcg catattacaa ccatgtttca cacagccc               288
```

<210> 948

<211> 513

<212> DNA

<213> Homo sapiens

<400> 948

```
ttttatctc cacacgcagt atgaagataa aattacatag tattacctag acatagacag   60
tattacctag gtagatgcac tgctcacctg caccctccc agctctcatt ttgttaggt   120
gatttgggat agggatagtg ttttggggtg tggggggagt gttctgacc tgctttgcag   180
acgtgcctcc gcacctcagc agtttggggt gtggccccag ggcgggttct ggatgtaaaa   240
gatgtggcca ttagcctcg taacttcaact gtcacctgtg tcccataggg tgccttctga   300
atactgttat tagaataagt ttgttcgaga acgtgacctt gcgtgcaaac atgtaccgtg   360
gcctgtgata tgatagagat tgatattaat gtaccatgta tgtaaatgtg aatctgtggg   420
caggatactt ttcatggca ggaaatatcc aagctgttga aactggctat gtttaatat   480
gcctcattgt gcctttactg ttgtgtggac tgc                               513
```

<210> 949

<211> 284

<212> DNA

<213> Homo sapiens

<400> 949

```
ctttatcatc ccacaaaca tttgaaact ggaatatttg tcttcagaaa atggaaacaa   60
gactataaat gataagccct gtccctagca ccacctctcc tgtgtgtgga atagaggccc   120
ctcgtgctac caacacttac cctgtgttta aaaagatctt gtaccaagcc aacggcgctc   180
ctggctctcc tgcccacagg atgaacattt tcggcttcct taggagtttt gccctaccgt   240
attccaaagc gtgtgctggt ttctcatatt gtctgtaggc tcac               284
```


<210> 950

<211> 511

<212> DNA

<213> Homo sapiens

<400> 950

```
gggacttaac atttcacgtt gtatcttact tgcagtgaat gcaagggtta cttttctctg   60
gggacctccc ccatacacca gggtctact ctgggctccc gattcccatg gctcccaaac   120
catgccgcat gggttggtta atgaaacca gtagctaacc cactgtgtgt tccacatgcc   180
tggcctaaaa tgggtgatat acaggtctta tatcccata tggaatttat ccatcaacca   240
cataaaaaa aacagtgcct tctgccctct gccagatgt gtccagcacg ttctcaaagt   300
ttccacatta gcactcccta aggacgtctg gagcctgtca gtttatgatc tgacctaggt   360
cccccttct tctgtcccc tgttttaag tccggatttt tacagaagga actgtctcca   420
gacagctcat caaggaacca agcaaaggcc agatagcctg acagataggc tagtggtaat   480
tgtgtatatg ggcgggacgt gtgtgtcatt a                               511
```

<210> 951

<211> 316

<212> DNA

<213> Homo sapiens

<400> 951

```
cctctgtcct caaatgtcca aaatgttga ggacctctgt tcatatccca cgcttgggct   60
cttgccagca gtggagttac ttagagggga tgtccaagc ttgtttcca atcagtgtta   120
agctgtttga aactctctg tctctgtgt ttgtttgtgc gtgtgtgtga gagcacatca   180
gtgtgtgcag gctgtgttc ccatttctc tctcccttc agaccatca ttgagaacaa   240
atgtaagaaa tcccttccca ccacctccc tgctcccag gccctctgcg ggggaaacaa   300
gatcaccag catcct                               316
```

<210> 952

<211> 149

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (55)..(55)

<223> n is a, c, g, or t

<400> 952

```
atatatttga tcatcgtgcc tatagccgct gccaccgtgt ataaatcctg gtgtntgctc   60
cttatctctg acatgaatgt attgtacact gacgcgtccc cactctgtga cagctgcttt   120
gtttctttgc aatgcattgt atggcttta                               149
```

<210> 953

<211> 475

<212> DNA

<213> Homo sapiens

<400> 953

```
cttggtgtcc tgggtgaat agacaagaag ctgtactata tgttgctctc tcagtggcaa   60
caatgaagtt ttgcaattc tagaacttgg atttttttt aacaaaagtc caaaacacc   120
aaaaatgtaa acaagataag agattaatat ttagtgatg taatttaatt aaagttatat   180
```

tttgggttaa ttttaacaac tgaagtctta ttgttgaaac ttatttcaa caaaactgtg 240
cagttaaatt tgtatacgtt ttacataact gaaagatgaa ccgttaaaat agcacttaat 300
tttgttttc tcaatatgt ctgtatatac ttgtgcaat taatattaca catgtaagtt 360
gtatggcagt ttacagaact caatgacttg tcatgagggt tcatatgag ctacacattg 420
tgtacattga ttgttttta ttttacata aatccattct gtcatttca acttt 475

<210> 954

<211> 402

<212> DNA

<213> Homo sapiens

<400> 954

aaagtcagtc cattttcaag ttttggctct cagagacaaa agaacgtccc agccacctga 60
ttttgatggt gaggttaact taagttgaat tcaggctagt gttgcagtat agctttggca 120
tgttcatgag tgagcaccca gaatgtgtg aaccaacccc caccctaact tactgactat 180
gactgcagtg ggttttatg gggaaaaaaa gtgtgaaaag caaaaagaaa ggaacagaga 240
tttttatca cctttattgt aagacagtc ctttatgaat tgagtataaa cacatacaaa 300
gtaacaagag attcctaaga aacgcaaac cttgagttc acgcacttca tgtcaacca 360
tttgctgtaa tccagaggca gcctgtgaat cattctcatg cc 402

<210> 955

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (29)..(29)

<223> n is a, c, g, or t

<400> 955

atccgacttg aatattcctg gacttacana atgccaaggg ggtgactgga agttgtggat 60
atcagggtat aaattatata cgtgagttgg gggagggaag accagaattc ctttgaattg 120
tgtattgatg caatataagc ataaaagatc acctgtatt ctctttacct tctaaaagcc 180
attattatga tgttagaaga agaggaagaa attcaggtac agaaaacatg tttaaatagc 240
ctaaatgatg gtgcttgggt agtcttgggt ctaaagggtac caaacaagga agccaaagtt 300
ttcaaactgc tgcatacttt gacaaggaaa atctatatatt gtcttcgat caacatttat 360
gacctaaagc aggtaataata cctgggttac ttcttagca ttttatgca gacagtctgt 420
tatgcactgt ggttcagat gtgcaataat ttgtacaatg gtttattccc aagtatgcct 480
taagcagaac aaatgtgttt ttctatatag ttcttgcct taa 523

<210> 956

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (332)..(332)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (365)..(365)

<223> n is a, c, g, or t

<400> 956

```
cccaggcctg tcactttgag agggggcaaaa ctgagagggg ctttcctag agaaagagaa   60
caaggagctt gccaggcttc atgtagccga cacacgtctc aggattttaa gtccacattg   120
gcctcacact accaggggcca atgcccacaaa taaggagttc caatttgggg ccaaatgagg   180
aaggacacag actctgccct gggatctcct gtgctagcgg ccaatgacaa atccagtcac   240
tggccaccag ccacctctgc agtgggggacc acactagcag ccctgactcc acactcctcc   300
tggggaccca agaggcagtg ttgctgtctg cntgtccacc ttggaatctg gctgaactgg   360
ctggnaggac caagactgcg gctgggggtgg gcaggggaagg gaagccgggg gctgctgtga   420
gggatcttgg agcttccttg tagccacact tccccttgct tcatgtttgt agaggaacct   480
tgtccggcc a                               491
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<210> 957

<211> 253

<212> DNA

<213> Homo sapiens

<400> 957

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gtaaatagtt aaccttcagt agtctattaa ggcattaata cttctctgga catgcgcgtt   60
tgagggtgga ggggtcctgt aagtgcttc atcgtctgtg attactgctt gggatgtgtt   120
ctttggcagc ttgtgagatt actttaccta gtgtttataa agtaggaagt taagtgaatc   180
atagattaga atttaatact cttatggaaa taattttta acatcttaac tgacaatggc   240
gttttttat aca                               253
```

<210> 958

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (57)..(57)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (65)..(65)

<223> n is a, c, g, or t

<400> 958

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gtaggctcag cgatagtggc cctcttacag agaaacgggg agcaggacga cgggggngct   60
ggggntggcg ggggagggtg cccacacaaa gaatcaggac ttgtactggg aaaaaaaccc   120
ctaaattaat tatatttctt ggacattccc ttcttaaca tcctgaggct taaaaccctg   180
atgcaaaact ctccttcag tggttggaga aattggccga gttcaacac tcaatgcaat   240
gcctattcca aactttaaat ctatctattg caaacctga aggactgtag ttagcgggga   300
tgatgttaag tgtggccaag cgcacggcgg caagttttca agcactgagt ttctattcca   360
agatcataga ctactaaag agagtacaaa atgcttcctt aatgtcttct ataccagaat   420
gtaaatattt ttgtgttttg ttttaatttg ttgaattct aacacactat atacttcaa   480
```

<210> 959

<211> 323

<212> DNA

<213> Homo sapiens

<400> 959

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tcgactctgc tgctcatggg aagaacagaa ttgctcctgc atgcaactaa ttcaataaaa   60
ctgtctgttg agctgatcgc ttggagggtc ctctttttat gttgagttgc tgcttcccgg   120
catgccttca ttttgctatg ggggggcaggc agggggggatg gaaaataagt agaaacaaaa   180
aagcagtggc taagatggta tagggactgt cataccagtg aagaataaaa ggggtgaagaa   240
taaaagggat atgatgacaa ggttgatcca ctcaagaat tgcttgcttt caggaagaga   300
gatgtgttc aacaagccaa eta                                     323
```

<210> 960

<21 1> 533

<212> DNA

<213> Homo sapiens

<400> 960

```
gagcccta atgatatgtat acagaaggta tggcagattt gaatgaaatg atccttcttc   60
tgcccttatg tcgacctgag gaaaaagatg ccaagattgc cttgatcaaa gagaaaacaa   120
aaagtcgcta tttccctgcc ttgaaaaag tgttacagag ccatggacaa gactaccttg   180
ttggcaacaa gctgagccgg gctgacatta gcctgggtgga acttctctac tatgtggaag   240
agcttgactc cagccttacc tccaacttcc ctctgctgaa ggccctgaaa accagaatca   300
gcaacctgcc cacgggtgaag aagtttctac agcctggcag cccaaggaag cctcccgcag   360
atgcaaaagc tttagaagaa gccagaaaga tttcaggtt ttaataaagc agccatggag   420
gctaagaaca tgcaagacca atattetaaa gttttgcaac aatgaagtgc ttacttaag   480
tgttgattgt gcctgttgta aagctaatga accctttcca attatatgct aat       533
```

<210> 961

<21 1> 472

<212> DNA

<213> Homo sapiens

<400> 961

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ccggcccagg ctactgggc cagtgggagg ctggacatca gcaacaagac ctatgagact   60
gtcgccagcc tgggagcagc caccctcag ggcgagagtg aggactgtcc cccgcccttg   120
ccagtcaaaa actcttctcg gactttggtc caaggggtgtg caagacatgc cagtggagat   180
cgttctgagc aaagaaagaa ggggagagtaa tagaattggg agggcagaga ctaagggtt   240
ctgcttccca gccctagaaa ttctatcatt gctcagcccc aatgagaaag cagatacacc   300
taagccatca tcaaccacta acatctcaac ttgccagttg ctgggtgctg ggccctggca   360
ggaatgggcc aagccaagca ggggagacta gagageacca atggccaaca cagctgcctg   420
gctggggagg ctgtgctgtt tcccttgagg acctgactgg tctgtggttc cc       472
```

<210> 962

<211> 495

<212> DNA

<213> Homo sapiens

<400> 962

```
gccggtgaga tgctctatct gccggctctg tggttccacc acgtccagca gtccaggggc   60
tgcatcgag tgaatttctg gtatgacatg gaatacgacc tcaagtatag ttacttcag   120
ctgctcgact cctcacaa ggcttcaggc ctgactgat ggagcactgg tgaacaccac   180
caagcacgcc tcgggggacg gagccagccc cccctggcc aggtcgagag agcctggagt   240
gtgcatgctg gctgctggcc ccgggtccag catggcttga gatcagcttt ggaggatctt   300
ggaatgtggt cataaggact caaggtgcca ggcaggtctg ggtgagggtt ctcaggaagt   360
tgccacacag gtgagcagag tggggatcag gtgcagcggc acctctccc agcgctgtga   420
```

tggtgggcga gtcactgcgt ctggggcatt ggtgtcctgt cagtaaagag ataataatgg 480
ctgtacctcg cgggg 495

<210> 963
<211> 120
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (43)..(43)
<223> n is a, c, g, or t
<400> 963
cctttccgtt tctgtctatg atgtaggcct ctgaggagaa ccnagaagct tggctttagt 60
ggtagaatga cagaacttag ggtacccttg caggctagaa caaagtctg acccttagac 120

<210> 964
<211> 494
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (335)..(335)
<223> n is a, c, g, or t
<400> 964
gacctcttga agcccaatta ttgcctcaat ccagaaaagt ttacttctct ttatctgtgc 60
tttactgaca gaagggaag tcttctctcg tttttgcag ataaaatctt agatgtgttg 120
cattcattgg gtttctatga gatgtgggtt tatcagacaa tttttcttt tatttcacaa 180
ttactttaat atctgtaaaa taaagaatta tttaattca ttttccagt cccaaaagt 240
aaatacaggc cacttactic tttaacaaa tgatatagtt tggctctgtg tccccacca 300
aatctcatgt caaatgtaa tccccgatg tcagnggagg gacctggtgg gagtgattg 360
gatcatgggg agggatttcc ccttgcctgt tctgttgata gtgaacgagt tctcacgaaa 420
tctgatggtt taaaagtga gcacttctcc ctttctctc tctctcctgc tgtgccatgg 480
taagacgtgc ctg 494

<210> 965
<211> 324
<212> DNA
<213> Homo sapiens
<400> 965

tgattttaaa attggcctcc tcaaagtta gcgtcttgca taatgatgat gtacgtctct 60
ggcatattac attttcctt gtatatcart attgaggta ttgtctgat atgacccaaa 120
gaggcaaaac tcagcacagt cctttctgca gtattctaaa ggtcatcaaa cttcagccta 180
gtgagctctg ttgttgatt tggccggaca tttaagcat ggcagaagtg gtacaagaaa 240
tcatgggtatt aagttgaac cacaccctt agaaaaatcc ttctattaat tcaaataatt 300
tgacgatgct tatgcgggtt ctga 324

<210> 966
<211> 478

<212> DNA

<213> Homo sapiens

<400> 966

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atcagaatag caacatttag aacacttttt gttatcagtc aatattttta gatagttaga 120
acctggctct aagcctaaaa gtgggcttga ttctgcagta aatcttttac aactgcctcg 180
acacacataa acctttttaa aaatagacac tccccgaagt ctttgtttg tatggtcaca 240
cactgatgct tagatgttcc agtaatctaa tatggccaca gtagtcttga tgaccaaagt 300
ccttttttc catctttaga aaactacatg ggaacaaaca gatcgaacag ttttgaagct 360
actgtgtgtg tgaatgaaca ctcttgcttt attccagaat gctgtacatc tatttggat 420
tgtatattgt ggttgtgtat ttacgcttgg attcatagta acttctatg gaattgat 478

<210> 967

<211> 44

<212> DNA

<213> Homo sapiens

<400> 967

gaaagcatgt ctgctgggtg tgaccatgtt tcctctcaat aaag 44

<210> 968

<211> 65

<212> DNA

<213> Homo sapiens

<400> 968

ggaaagcatg tctgctgggt gtgacatgt ttctctcaa taaagttccc ctgtgacact 60
caaaa 65

<210> 969

<211> 494

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (33)..(33)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (45)..(54)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (168)..(168)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (203)..(257)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (304)..(304)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (306)..(306)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (348)..(362)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (427)..(427)

<223> n is a, c, g, or t

<400> 969

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gaagaagggg ccatcacagg atgccacccc tgnctgggt tgggrinnnnn nnnncacgac   60
cagcccttc ctgggtattt attctctatt tattgggat aggagaagag gcatcctgcc   120
tgggtgggac agcccttca gcccttctc cctccccgc ctggccangg cagggccacc   180
ccactctacc tcttagctt tennniinnnn rirmirnnnnnn rrmnnnnnnn nrmnnrinnnn  240
rirmnnnnrin rmmnnnnnaga gctgacggga ggccccagct ctgaggggag ggggtccgtg   300
gtanangcct ggggccggtg gaggtcccc agggctcct tatgtcnnn nnnnnnnm n   360
nnggggtgtg atgtaattag ctctgggggg cagttgggta gatgggtggg ggctcctggt   420
ggcctntgc tgccaggcc acagccgct ttgggttcca tcttctaataaacactggc   480
tctgggacta gaaa                                         494
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<210> 970

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (229)..(252)

<223> n is a, c, g, or t

<400> 970

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gaaaccagg tgctggacca gggccctcag ggaggggacc ctgcggctag agtgggctag   60
gccctggctt tgcccgtag attgaacga atgtgtgtcc cttgagcca aggagagcg   120
caggaggggt gggaccaggc tgggaggaca gagccagcag ctgccatgcc ctctgtctc   180
ccccaccca gccctagccc ttagcctt caccctgtgc tctggaaann rmmnnnnnnn   240
nnnrinnnnnn nnaggaggag caaaaatgag ccagcaccag cgccttggtt ttgtgttagc   300
attcctcct gaagtgttct gttggcaata aa                                         332
```

<210> 971

<211> 279

<212> DNA

<213> Homo sapiens

<400> 971

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cttctacagg cttttgggaa gtaggggtgga tgtgggtagg gctgggagga gggggccaca   60
gcttaggttt ggagctctgg atgtacatac ataagtagga gcagtgggac gtgtttctgt   120
cataatgcag gcatgaaggg tggagtgaag tcaggtcata agtttcatgt ttgcttttgt   180
ttgttttgt ttttaatga tgtagcagat gttacagtct tagggatccg ggatgggaga   240
ccccacttta gaaagggtcg tcactccttt aatcctcta                               279
```

<210> 972

<211> 145

<212> DNA

<213> Homo sapiens

<400> 972

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ctgaacgggc gactgtgtct tgactacctt tcaaaaccag cactgtgtgg gaatgtccgc   60
caggcagagc tcggagcctc attgagacag gggagagaga aagacaaaga ggggaccttc  120
ttccagatgc cttccagtt gtaac                                           145
```

<210> 973

<211> 499

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (200)..(204)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (230)..(230)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (235)..(235)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (239)..(239)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (357)..(357)

<223> n is a, c, g, or t

<400> 973

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cagagaacca gccctgctca cgccatgcc gcccccgcct tcctcttcc ctcttccctc   120
tcctgcccc gccctcctt ccttctctg ccggcaaggc agggaccac agtggtgcc   180
tgctccggg aggggaaggan nnnnaggag ggtgggtggg tggaggggn ccttncctnc   240
cagggaatgt gactctccca ggccccagaa tagctctgg acccaagccc aaggcccagc   300
ctgggacaag gctccgaggg tcggctggcc ggagctattt ttacctcccg cctcccntgc   360
tggtcccccc acctgacgtc ttgctgcaga gtctgacact ggattcccc cctcaccccc   420
gccccgtgtc cactctctgc ccccgcccta cctccgcccc acccatcat ctgtggacac   480
```


tggagtctgg aataaatgc

499

<210> 974

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (26)..(29)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (44)..(58)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (63)..(139)

<223> n is a, c, g, or t

<400> 974

ttgctgaaga gcaagcagag ggtccnnnc gcctgctgta caannnnnnn rinnnnnnca 60
tcnnnnnnnn nnnrnnnnnn nnnnrirrrm nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nmnrnnnnnn nnnnnnnnnn ggcctctccc tctgtcagtt ccagaacttc tcctccatg 180
accactcta tgggaaactc tcagcacct acctgcgcc cccacacacc tctcgaggca 240
cctcccagac accaatgcc tcaccccag gcaacccac tgctctggcc aatgggactg 300
tgcaagcacc caagcagaag ggagactgag tgcctcagcc tctaccccc tctcctcag 360
ggcagcgcta ggggcctccc ctatgcctca gcccctctc tgctcctgtt tgaattttg 419

<210> 975

<211> 427

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (64)..(64)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (101)..(101)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (120)..(121)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (272)..(326)

<223> n is a, c, g, or t

<400> 975

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 agantttgta tgatgctgaa ttattatgca gactaattcc ncccagttga gacacaccan 120
 ncttgttcac ttgtatttat tgaaactgtg gattcttgcc cgtgctgtcc ctgtattta 180
 cttaagcac tgatcactta tcattcattc ggtatgggtt tcctgtccc ttgtacacat 240
 tctggtatga atttgaataa ataacctgct annnnnnnnn nrmnnnnnnn nnnnnnnnnn 300
 nnnimnnnnn nnnnnnnnnn nnnnnncgtg cccaactgag gaacaggaga agaaatcacc 360
 aattgggct ctcagagcta agacacactt attgattctg ttgcacattt tgcactggtt 420
 tatggcg 427

<210> 976
 <211> 457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (64)..(95)
 <223> n is a, c, g, or t
 <220>
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 <222> (104)..(104)
 <223> n is a, c, g, or t
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 <222> (226)..(226)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (344)..(344)
 <223> n is a, c, g, or t
 <220>
 <221> misc_feature
 <222> (387)..(402)
 <223> n is a, c, g, or t
 <400> 976

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 tttrinnnnnn nrinnnnnnnn rinnnnnnnnn nnnnnctccc aggnacccgc tgaatttctg 120
 aggccctgct taaagctcag aagtgggtta ggcatttga aaatctgggt cacatcataa 180
 agaactgat ttgaaatgtt ttctatagaa acaagtgcta agtgnaccg tattatactt 240
 gatgttggtc atttctcagt cctatttctc agttctatta ttttagaacc tagtcagttc 300
 ttaagatta taactggctc tacattaaaa taatgcttct cgangtcaga tttacctgt 360
 ttgctgctga gaacatctct gcctaannnn nrmnnnnnnn nnttcagtt caacatgctt 420
 ccttagcttt tcatagttgt ctgacatttc catgaaa 457

<210> 977
 <211> 493
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (28)..(28)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (44)..(44)
 <223> n is a, c, g, or t
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<221> misc_feature
 <222> (53)..(53)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (73)..(74)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (88)..(88)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (95)..(96)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (98)..(98)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (108)..(123)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (351)..(351)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (364)..(378)
 <223> n is a, c, g, or t
 <400> 977

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 gtgtgtacag ccnngtcacc gtgcagcnc t cgtntntnga ggacaaannn nnnπnrirmnn 120
 nnntggaggc agt gatggag aagcaaaaga agaaggtgga aggcgaggtg gaaatggagg 180
 tcatttgacc tgccaggcgc ccttcgcaa gagtgacgag gccccgtggg agaacggact 240
 cctcagactc tcccaatag cggaagtcga tctctgaag gatggccaat ctgctccggc 300
 cctggtcttc ccccatccg gtggacagac ttaacgatc ttgctgcagt ncctccggag 360
 aggrinnnnnn nnnnnnnnga gtggggaggg cgtggagaca gtctacggaa agcgctagca 420
 gacccccgag aggggtgcagt ggagccctga gcattgtaat atgcggccca gcctataaac 480
 agcctccgtg ctt 493

<210> 978

<211> 1536

<212> DNA

<213> Homo sapiens

<400> 978

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gtccccggtg ctgcgccggc ggagcccccg gcttccggg gccgggggac ctagcggca   120
cccacacaca gcctactttc caagcggagc catgtctggt aacggcaatg cggctgcaac   180
ggcgggaagaa aacagcccaa agatgagagt gattcgcgtg ggtaccgca agagccagct   240
tgctcgcata cagacggaca gtgtggtggc aacattgaaa gcctcgtacc ctggcctgca   300
gtttgaaatc attgctatgt ccaccacagg ggacaagatt ctgatactg cactctctaa   360
gattggagag aaaagcctgt ttaccaagga gcttgaacat gccctggaga agaatgaagt   420
ggacctggtt gttactctct tgaaggacct gccactgtg ctctctctg gcttcacat   480
cggagccatc tgcaagcggg aaaaccctca tgatgctgtt gtcttcacc caaaatttgt   540
tgggaagacc ctagaacccc tgccagagaa gagtgtggtg ggaaccagct ccctgcgaag   600
agcagccccg ctgcagagaa agtcccgcga tctggagttc aggagtattc ggggaaacct   660
caacaccggg ctccggaagc tggacgagca gcaggagttc agtgccatca tcttggcaac   720
agctggcctg cagcgcgatg gctggcaca ccgggtgggg cagatcctgc accctgagga   780
atgcatgtat gctgtgggcc agggggcctt gggcgtggaa gtgcgagcca aggaccagga   840
catcttgat ctggtgggtg tgctgcacga tcccgagact ctgcttcgt gcacgcgtga   900
aagggccttc ctgaggcacc tggaaaggagg ctgcagtgtg ccagtagccg tgcatacagc   960
tatgaaggat gggcaactgt acctgactgg aggagtctgg agtctagac gctcagatag  1020
catacaagag accatgcagg ctaccatcca tgcctgtcc cagcatgaag atggccctga  1080
ggatgacca cagttggtag gcatactgc tcgtaacatt ccacgagggc ccagttggc  1140
tgcccagaac ttgggcatca gcctggccaa ctgtgtctg agcaaaggag ccaaaaacat  1200
cctggatgtt gcacggcagc ttaacgatgc ccattaactg gttgtgggg cacagatgcc  1260
tgggttgctg ctgtccagt cctacatccc gggcctcagt gccccattct cactgctatc  1320
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cacctgggg ccttgatgac tgccttgct cctcagatg tgggggcttc atctcttag  1440
agaagtcaa gcaacagcct ttgaatgtaa ccaatctac taataacca gttctgaagg  1500
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa                               1536
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<210> 979

<211> 1524

<212> DNA

<213> Homo sapiens

<400> 979

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gagaagatgc tcaattcatc tatggttacc ccaagaagg gcacggccac tcttacacca  120
cggctgaaga ggccgctggg atcggcaccc tgacagtgat cctgggagtc ttactgtca  180
tcggctgttg gtattgtaga agacgaaatg gatacagagc ctgtatggat aaaagtcttc  240
atgttggcac tcaatgtgcc ttaacaagaa gatgcccaaga agaagggttt gatcatcggg  300
acagcaaagt gtctcttcaa gagaaaaact gtgaacctgt ggttcccaat gctccacctg  360
cttatgagaa actctctgca gaacagtcac caccacctta ttaccttaa gagccagcga  420
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